

H²S Scavenging

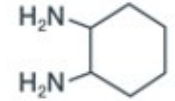


Whether you're looking for Formalin, an MEA booster, or a solution to dithiazine solids, We've got you covered.

Our Chemistries

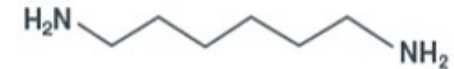
FlexaTram™ DAM

1,2- Diaminocyclohexane



+

Hexamethylenediamine



Trinosolv™

Proprietary nitrile blend

Formalin

Formaldehyde + H₂O

Trinosolv

- Non-hazardous
- Non-corrosive
- Non- flammable
- Non-aquatically toxic
- Removes dithiazine, preventing solid formation
- Able to dissolve existing solid buildup

FlexaTram™ DAM 120 & 700

- Low Viscosity, aliphatic amine
- Partially replace MEA to boost your scavenging efficacy.
- Helps prevent precipitate build up, common in the presence of MEA triazine

Formalin

- Produced in Houston, TX
- Uninhibited & inhibited grades
- Available in rail & ISO

FlexaTram™ DAM

Diaminocyclohexane (DCH) & Hexamethylenediamine (HDA)

Grade	Assay (HMD%)	Assay (DCH)	Water (wt%)
FlexaTram™ DAM-120	∞40	∞32	<10
FlexaTram™ DAM-700	∞70	∞17	<10

Corrosion Protection Mechanism



- Reduces corrosion when reacting with H₂S**
 - Reduces MEA by 10% in concentrated formulation
 - Extends scavenging duration
 - Reduces maintenance and equipment downtime

Formalin

Formaldehyde & H₂O

Grade	Assay (Formaldehyde wt%)	MeOH (wt%)	Formic Acid (wt%)
Formalin 501	49-51	1.5 Max	.1 Max
Formalin 371	35.5-37.5	1.5 Max	
Formalin 377	37.0 +/- 2	7.0 +/- 0.5	



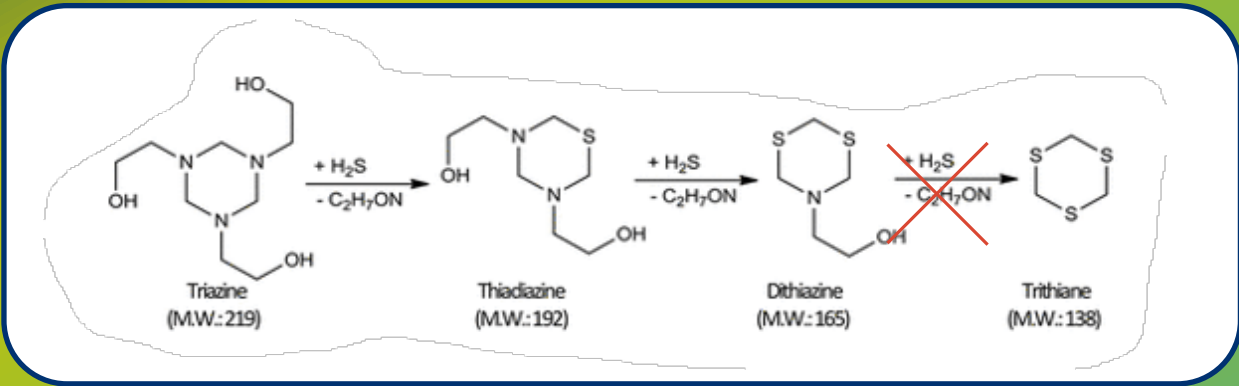
All grades are available in bulk truck and rail



Trinosolv

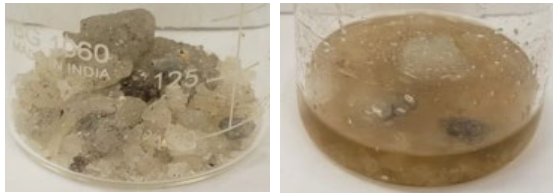
Extend scavenging efficiency, reduce field maintenance costs & extend equipment lifetime

Removes dithiazine which prevents further reactions into polymorphous dithiazine & trithiane



Dissolves 96% of Dithiazine Solids in 1 hour

Temperature (°F)	125
Dissolution (%)	96.0
Solid to Solvent ratio (wt)	8.50
Dithiazine Solubility (lb/gal)	29.2



*All solids were fully dissolved after 2 hours.

Excellent Physical properties:

- Freeze point: -26 °C
- Boiling point: 576 °C (projected)
- Flashpoint (open cup): 247 °C
- Non-hazardous
- Non-flammable
- Non-corrosive
- Not aquatically toxic
- Compatible with common oilfield materials



- Sold in high concentration
- US manufactured
- Available in Rail, ISO, IBC
- SDS and TDS available upon request



Trinosolv Solubility Guidance

Compatible = mixture remains in solution overnight

Compatible Materials

DMF
NMP
Acetone
Chloroform
DMSO
Methanol
Carbonates
MEK, MIBK, MAK
DEG
Methyl ethers
Benzene
Cresol
Triton X-100
DME 100 and 200
Nitriles

Formulation Suggestions

ANY RATIO:

Trinosolv:MeOH

Trinosolv:MeOH:X-100= (1:1:1)

Trinosolv:MeOH:X-100:H2O=
(1:1:1:1)

RATIOS (BY WEIGHT):

Trinosolv:MeOH:X-100= (90:9.5:0.5)

Trinosolv:MeOH= (25:75 to 75:25)

Incompatible Materials

DEOA
DPA
TEA
DIBK
Butyl cellosolve (2-butoxyethanol)
Ethanol and longer chain alcohols
EG
Ethers larger than methyl
Hydrocarbons
Toluene
Xylenes
Tween 40