

Tetramethylthiuram disulfide

Other names:

Aapirol
Aatiram
Accel TMT
Accelerant T
Accelerator T
Accelerator Thiuram
Aceto TETD
Agrichem flowable thiram
Akrochem TMTD
Anles
Arasan
Arasan 42S
Arasan 50 red
Arasan 70
Arasan 70-S Red
Arasan 75
Arasan-M
Arasan-SF
Arasan-sf-x
Atiram
Aules
Basultra
Betoxin
Bis((dimethylamino)carbonothioyl) disulfide
Bis(dimethyl-thiocarbamoyl)-disulfid
Bis(dimethylaminothiocarbonyl)disulfide
Bis(dimethylthiocarbamoyl) disulfide
Bis(dimethylthiocarbamyl) disulfide
Chipco thiram 75
Cyuram DS
Disolfuro di tetrametiltiourame
Disulfide, bis(dimethylthiocarbamoyl)
Disulfure de tetramethylthiourame
ENT-987
Ekagom TB
Falitiram
Fermide
Fermide 850
Fernacol
Fernasan

Fernasan A
Fernide
Formalsol
Formamide, 1,1'-dithiobis(N,N-dimethylthio-
Hermal
Hermat TMT
Heryl
Hexathir
Kregasan
Mercuram
Methyl Thiram
Methyl Tuads
Methylthiuram disulfide
N,N'-(Dithiodicarbonothioyl)bis(N-methylmethanamine)
N,N,N',N'-Tetramethylthiuram disulfide
N,N-Tetramethylthiuram disulfide
NSC-1771
Naftocit thiuram 16
Nobecutan
Nocceler TT
Nomersan
Normersan
Panoram 75
Perkacit TMTD
Polyram ultra
Pomarsol
Pomarsol Forte
Pomasol
Puralin
Radothiram
Rezifilm
Robac TMT
Royal TMTD
SQ 1489
Sadoplon
Sadoplon 75
Spotrete
Spotrete WP 75
Spotrete-F
TMTD
TMTDS
TUEX
Teramethylthiuram disulfide

Tersan
Tersan 75
Tersantetramethyldiurane sulfide
Tetramethyl-thiram disulfid
Tetramethylenethiuram disulfide
Tetramethylthiocarbamoyldisulphide
Tetramethylthioperoxydicarbonic diamide
Tetramethylthioramdisulfide
Tetramethylthiuram
Tetramethylthiuram Bisulfide
Tetramethylthiuram disulphide
Tetramethylthiurane disulfide
Tetramethylthiurum disulfide
Tetrapom
Tetrasipton
Tetrathiuram disulfide
Thillate
Thimer
Thioknock
Thioperoxydicarbonic diamide ($[(\text{H}_2\text{N})\text{C}(\text{S})]_2\text{S}_2$), N,N,N',N'-tetramethyl-
Thioperoxydicarbonic diamide ($[(\text{H}_2\text{N})\text{C}(\text{S})]_2\text{S}_2$), tetramethyl-
Thiosan
Thioscabin
Thiotex
Thiotox
Thiram
Thiram 75
Thiram 80
Thiram B
Thiramad
Thirame
Thirasan
Thiulin
Thiulix
Thiurad
Thiuram
Thiuram D
Thiuram M
Thiuram M rubber accelerator
Thiuram disulfide, tetramethyl-
Thiuramin
Thiuramyl
Thylate

Tiradin
 Tirampa
 Tiuram
 Tiuramyl
 Trametan
 Tridipam
 Tripomol
 Tuads
 Tulisan
 Tutan
 Tyradin
 VUagT-I-4
 Vancida TM-95
 Vancide TM
 Vancide TM-95
 Vulcafor TMT
 Vulcafor TMTD
 Vulkacit DTMT
 Vulkacit MTIC
 Vulkacit TH
 Vulkacit thiuram
 Vulkazam S
 Zaprawa Nasienna T
 thioperoxydicarbonic diamide, tetramethyl-
 «alpha», «alpha»'-Dithiobis(dimethylthio)formamide
 Â«alphaÂ», Â«alphaÂ»'-Dithiobis(dimethylthio)formamide
Inchi: InChI=1S/C6H12N2S4/c1-7(2)5(9)11-12-6(10)8(3)4/h1-4H3
InchiKey: KUAZQDVKQLNFPE-UHFFFAOYSA-N
Formula: C6H12N2S4
SMILES: CN(C)C(=S)SSC(=S)N(C)C
Mol. weight [g/mol]: 240.43
CAS: 137-26-8

Physical Properties

Property code	Value	Unit	Source
chs	-6525.50 ± 1.40	kJ/mol	NIST Webbook
gf	521.56	kJ/mol	Joback Method
hf	344.63	kJ/mol	Joback Method
hfs	40.20 ± 1.70	kJ/mol	NIST Webbook

hfus	34.80		kJ/mol	Joback Method
hvap	60.13		kJ/mol	Joback Method
log10ws	-3.90			Aqueous Solubility Prediction Method
log10ws	-3.90			Estimated Solubility Method
logp	2.061			Crippen Method
mcvol	172.160		ml/mol	McGowan Method
pc	4005.77		kPa	Joback Method
rinpol	2250.00			NIST Webbook
rinpol	2250.00			NIST Webbook
tb	639.20		K	Joback Method
tc	895.77		K	Joback Method
tf	426.85		K	Aqueous Solubility Prediction Method
vc	0.588		m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	376.33	J/mol×K	639.20	Joback Method
cpg	387.40	J/mol×K	681.96	Joback Method
cpg	397.49	J/mol×K	724.72	Joback Method
cpg	406.72	J/mol×K	767.49	Joback Method
cpg	415.23	J/mol×K	810.25	Joback Method
cpg	423.16	J/mol×K	853.01	Joback Method
cpg	430.65	J/mol×K	895.77	Joback Method
cps	301.70	J/mol×K	298.15	NIST Webbook

Sources

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C137268&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Measurement and Modeling of the Solubility of Tetramethylthiuram

<https://www.doi.org/10.1021/je201186h>

Joback Method-Nitrophenyl Disulfide in Compressed Propane:

https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method:

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Estimated Solubility Method:

http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cps:	Solid phase heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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