TETRAMETHYLTHIURAM MONOSULFIDE

Other names:

Tetramethylthiuram monosulfide
Thiodicarbonic diamide ([(H2-N)C(S)]2-S), tetramethyl-
Aceto TMTM
Bis(dimethylthiocarbamoyl) sulfide
Bis(dimethylthiocarbamyl) monosulfide
Carbamic acid, dimethyldithio-, anhydrosulfide
Carbamic anhydride, tetramethyltrithio-
Carbamodithioic acid, dimethyl-, anhydrosulfide
Cyuram MS
Ekagom TM
Formamide, 1,1'-thiobis(N,N-dimethylthio-
Monex
Mono-Thiurad
Monothiuram
N,N,N',N'-Tetramethylthiuram monosulfide
Sulfide, bis(dimethylthiocarbamoyl)
Sulfide, bis((dimethylamino)thioxomethyl)
Tetramethyldithiocarbamic acid anhydrosulfide
Tetramethylthiuram sulfide
Tetramethylthiuramide sulfide
Thiuram monosulfide, tetramethyl-
Thiuram MM
TMTM
TMTMS
Unads
USAF EK-P-6255
USAF B-32
Vulkacit Thiuram MS
Monosulfure de tetramethylthiurame
Pennac MS
Tetramethylthiuramonosulfide
Vulkacit MS
Vulkacit thiuram ms/C
Perkacit TMTM
Thiodicarbonic diamide, tetramethyl-
NSC 3400
Tetramethylthiurammonium sulfide
NSC 4767
tetramethylthiuram monosulphide

Inchi: InChI=1S/C6H12N2S3/c1-7(2)5(9)11-6(10)8(3)4/h1-4H3

InchiKey: REQPQFUJGGOFQL-UHFFFAOYSA-N
Formula: C6H12N2S3
SMILES: CN(C)C(=S)SC(=S)N(C)C
Mol. weight [g/mol]: 208.38

Physical Properties

Property code	Value	Unit	Source
chs	-5930.50 ± 1.00	kJ/mol	NIST Webbook
hf	112.60	kJ/mol	Cheméo Relay (1.0)
hfs	47.50 ± 1.30	kJ/mol	NIST Webbook
hfus	30.67	kJ/mol	Joback Method
ie	7.72	eV	Cheméo Relay (1.0)
log10ws	-3.98		Cheméo Relay (1.0)
logp	1.413		Crippen Method
mcvol	155.810	ml/mol	McGowan Method
tf	436.63	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	331.73	J/mol×K	570.42	Joback Method
cpg	343.27	J/mol×K	610.05	Joback Method
cpg	353.79	J/mol×K	649.68	Joback Method
cpg	363.41	J/mol×K	689.31	Joback Method
cpg	372.25	J/mol×K	728.95	Joback Method
cpg	380.44	J/mol×K	768.58	Joback Method
cpg	388.08	J/mol×K	808.21	Joback Method
cps	261.50	J/mol×K	298.15	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C97745&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cps:	Solid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point