

Carbamothioic acid, bis(2-methylpropyl)-, S-ethyl ester

Other names:	Anelda Bis(2-methylpropyl)carbamothioic acid S-ethyl ester Butilate Butylate Carbamic acid, diisobutylthio-, S-ethyl ester Carbamothioic acid, N,N-bis(2-methylpropyl)-, S-ethyl ester Diisobutylthiocarbamic acid S-ethyl ester Diisocarb Ethyl N,N-diisobutylthiocarbamate Ethyl N,N-diisobutylthiolcarbamate R 1910 S-Ethyl N,N-diisobutyl thiocarbamate S-Ethyl N,N-diisobutyl thiolcarbamate S-Ethyl bis(2-methylpropyl)carbamothioate Stauffer R-1,910 Stauffer R-1910 Sutan s-Ethyl diisobutyl thiocarbamate
Inchi:	InChI=1S/C11H23NOS/c1-6-14-11(13)12(7-9(2)3)8-10(4)5/h9-10H,6-8H2,1-5H3
InchiKey:	BMTAFVWTTFSTOG-UHFFFAOYSA-N
Formula:	C11H23NOS
SMILES:	CCSC(=O)N(CC(C)C)CC(C)C
Mol. weight [g/mol]:	217.37
CAS:	2008-41-5

Physical Properties

Property code	Value	Unit	Source
gf	51.84	kJ/mol	Joback Method
hf	-284.11	kJ/mol	Joback Method
hfus	25.95	kJ/mol	Joback Method
hvap	54.91	kJ/mol	Joback Method
log10ws	-3.68		Aqueous Solubility Prediction Method
log10ws	-3.68		Estimated Solubility Method
logp	3.473		Crippen Method
mcvol	193.750	ml/mol	McGowan Method

pc	2104.20	kPa	Joback Method
rinpol	1411.00		NIST Webbook
rinpol	1411.00		NIST Webbook
rinpol	1438.00		NIST Webbook
tb	585.29	K	Joback Method
tc	778.91	K	Joback Method
tf	300.53	K	Joback Method
vc	0.718	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	485.98	J/mol×K	585.29	Joback Method
cpg	502.67	J/mol×K	617.56	Joback Method
cpg	518.50	J/mol×K	649.83	Joback Method
cpg	533.49	J/mol×K	682.10	Joback Method
cpg	547.67	J/mol×K	714.37	Joback Method
cpg	561.06	J/mol×K	746.64	Joback Method
cpg	573.69	J/mol×K	778.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2008415&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
p_c:	Critical Pressure
r_{inpol}:	Non-polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/17-692-5/Carbamothioic-acid-bis-2-methylpropyl-S-ethyl-ester.pdf>

Generated by Cheméo on 2024-04-20 08:10:13.066109709 +0000 UTC m=+15889861.986687024.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.