

Thiambutosine

Other names:

Thiourea, N-(4-butoxyphenyl)-N'-[4-(dimethylamino)phenyl]-
Carbanilide, 4-butoxy-4'-(dimethylamino)thio-
Ciba 1906
Su 1906
Summit 1906
Thiambutosin
4-Butoxy-4'-(dimethylamino)thiocarbanilide
1-(p-Butoxyphenyl)-3-(p-dimethylaminophenyl)-2-thiourea
1-(4-Butoxyphenyl)-3-(4-dimethylaminophenyl)thiourea
Thaimbutosine
NSC 682

Inchi:

InChI=1S/C19H25N3OS/c1-4-5-14-23-18-12-8-16(9-13-18)21-19(24)20-15-6-10-17(11-7

InchiKey:

JYCBKPOKWDDOOV-UHFFFAOYSA-N

Formula:

C19H25N3OS

SMILES:

CCCCOc1ccc(NC(=S)Nc2ccc(N(C)C)cc2)cc1

Mol. weight [g/mol]:

343.49

CAS:

500-89-0

Physical Properties

Property code	Value	Unit	Source
gf	616.28	kJ/mol	Joback Method
hf	203.38	kJ/mol	Joback Method
hfus	51.28	kJ/mol	Joback Method
hvap	87.82	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.740		Crippen Method
mcvol	278.910	ml/mol	McGowan Method
pc	1872.41	kPa	Joback Method
tb	902.68	K	Joback Method
tc	1134.08	K	Joback Method
tf	576.06	K	Joback Method
vc	1.026	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	846.22	J/mol×K	902.68	Joback Method
cpg	860.98	J/mol×K	941.25	Joback Method
cpg	874.77	J/mol×K	979.81	Joback Method
cpg	887.69	J/mol×K	1018.38	Joback Method
cpg	899.87	J/mol×K	1056.95	Joback Method
cpg	911.41	J/mol×K	1095.52	Joback Method
cpg	922.42	J/mol×K	1134.08	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C500890&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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