

Captodiamine

Other names:

Ethanamine, 2-[[[4-(butylthio)phenyl]phenylmethyl]thio]-N,N-dimethyl-
Ethylamine, 2-[[p-(butylthio)-«alpha»-phenylbenzyl]thio]-N,N-dimethyl-
p-Butylmercaptobenzhydryl «beta»-dimethylaminoethyl sulfide
p-Butylthiodiphenylmethyl 2-(dimethylamino)ethyl sulfide
Captodiam
Captodiame
Captodiamin
Captodramin
Captodramine
Covatin
Covatix
p-Butylmercaptobenzhydryl-«beta»-dimethylamino-ethylsulphide
2-((p-(Butylthio)-«alpha»-phenylbenzyl)thio)-N,N-dimethylethylamine
Kaptodiamin
N 68
VUFB 2350

Inchi:

InChI=1S/C21H29NS2/c1-4-5-16-23-20-13-11-19(12-14-20)21(24-17-15-22(2)3)18-9-7-6

InchiKey:

IZLPZXSZLLELBJ-UHFFFAOYSA-N

Formula:

C21H29NS2

SMILES:

CCCCSc1ccc(C(SCCN(C)C)c2ccccc2)cc1

Mol. weight [g/mol]:

359.59

CAS:

486-17-9

Physical Properties

Property code	Value	Unit	Source
gf	515.71	kJ/mol	Joback Method
hf	130.81	kJ/mol	Joback Method
hfus	45.60	kJ/mol	Joback Method
hvap	82.84	kJ/mol	Joback Method
log10ws	-6.16		Crippen Method
logp	5.963		Crippen Method
mcvol	301.910	ml/mol	McGowan Method
pc	1541.49	kPa	Joback Method
rinpola	2774.00		NIST Webbook
tb	887.78	K	Joback Method
tc	1127.69	K	Joback Method
tf	478.06	K	Joback Method

vc

1.115

m3/kmol

Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	910.63	J/mol×K	887.78	Joback Method
cpg	927.54	J/mol×K	927.76	Joback Method
cpg	942.97	J/mol×K	967.75	Joback Method
cpg	957.01	J/mol×K	1007.73	Joback Method
cpg	969.76	J/mol×K	1047.72	Joback Method
cpg	981.31	J/mol×K	1087.70	Joback Method
cpg	991.76	J/mol×K	1127.69	Joback Method

Sources

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

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=C486179&Units=SI>

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
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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