

Ketamine

Other names:

Cyclohexanone, 2-(2-chlorophenyl)-2-(methylamino)-, (.+/-.)-
Cyclohexanone, 2-(o-chlorophenyl)-2-(methylamino)-
Cyclohexanone, 2-(o-chlorophenyl)-2-(methylamino)-, (.+/-.)-
CI 581 base
CLSTA 20
Ketaject
Ketalar base
2-(o-Chlorophenyl)-2-(methylamino)cyclohexanone
2-(Methylamino)-2-(2-chlorophenyl)cyclohexanone
(.+/-.)-2-(O-Chlorophenyl)-2-(methylamino)cyclohexanone
(.+/-.)-Ketamine
dl-Ketamine
NSC 70151
(RS)-2-(2-chlorophenyl)-2-(methylamino)cyclohexanone

Inchi:

InChI=1S/C13H16ClNO/c1-15-13(9-5-4-8-12(13)16)10-6-2-3-7-11(10)14/h2-3,6-7,15H,4-

InchiKey:

YQEZLKZALYSWHR-UHFFFAOYSA-N

Formula:

C13H16ClNO

SMILES:

CNC1(c2ccccc2Cl)CCCCC1=O

Mol. weight [g/mol]:

237.72

CAS:

6740-88-1

Physical Properties

Property code	Value	Unit	Source
gf	135.19	kJ/mol	Joback Method
hf	-117.00	kJ/mol	Joback Method
hfus	17.42	kJ/mol	Joback Method
hvap	61.82	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	2.898		Crippen Method
mvol	183.200	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
tb	703.71	K	Joback Method
tc	963.81	K	Joback Method
tf	457.29	K	Joback Method
vc	0.677	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	578.53	J/molxK	920.46	Joback Method
cpg	496.62	J/molxK	703.71	Joback Method
cpg	514.78	J/molxK	747.06	Joback Method
cpg	531.88	J/molxK	790.41	Joback Method
cpg	548.08	J/molxK	833.76	Joback Method
cpg	563.57	J/molxK	877.11	Joback Method
cpg	593.11	J/molxK	963.81	Joback Method
hfust	26.60	kJ/mol	365.70	NIST Webbook

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=C6740881&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
hfust:	Enthalpy of fusion at a given temperature
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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