(-)-Deoxyephedrine

Other names:	(+)-(S)-deoxyephedrine
	(+)-methamphetamine
	(-)-(R)-N,«alpha»-Dimethylphenethylamine
	(-)-Methamphetamine
	(-)-methyl(«alpha»-methylphenethyl)amine
	(2S)-N-methyl-1-phenylpropan-2-amine
	(S)-N-methyl-1-phenylpropan-2-amine
	Benzeneethanamine, N,«alpha»-dimethyl-, (-)-
	Benzeneethanamine, N,«alpha»-dimethyl-, (R)-
	D-(-)-n,alpha-dimethyl-phenyl ethylamine
	L-methamphetamine
	L-methylamphetamine
	Laevo desoxyephedrine base
	Levmetamfetamine
	N-Methyl-1-phenyl-2-propanamine
	N-Methyl-1-phenyl-2-propanamine, (-)-
	NSC 6084
	Phenethylamine, N,«alpha»-dimethyl-, (-)-
	Phenethylamine, N,«alpha»-dimethyl-, D-
	R-(-)-N-Methylamphetamine
	benzeneethanamine, N,.alpha.-dimethyl-, (.alpha.S)-
	benzeneethanamine, N,.alpha.-dimethyl-, (S)-
	l-1-Phenyl-2-methylamino-propan
	l-1-Phenyl-2-methylaminopropane
Inchi:	InChI=1S/C10H15N/c1-9(11-2)8-10-6-4-3-5-7-10/h3-7,9,11H,8H2,1-2H3/t9-/m0/s1
InchiKey:	MYWUZJCMWCOHBA-VIFPVBQESA-N
Formula:	C10H15N
SMILES:	CNC(C)Cc1ccccc1
Mol. weight [g/mol]:	149.23
CAS:	33817-09-3

Physical Properties

Property code	Value	Unit	Source
gf	232.68	kJ/mol	Joback Method
hf	34.99	kJ/mol	Joback Method
hfus	17.27	kJ/mol	Joback Method

hvap	46.18	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	1.837		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
rinpol	1203.60		NIST Webbook
rinpol	1203.60		NIST Webbook
tb	504.61	K	Joback Method
tc	715.64	K	Joback Method
tf	266.54	K	Joback Method
vc	0.516	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	361.90	J/mol×K	645.30	Joback Method
cpg	374.08	J/mol×K	680.47	Joback Method
cpg	304.75	J/mol×K	504.61	Joback Method
cpg	320.38	J/mol×K	539.78	Joback Method
cpg	335.09	J/mol×K	574.95	Joback Method
cpg	348.92	J/mol×K	610.13	Joback Method
cpg	385.49	J/mol×K	715.64	Joback Method
hvapt	58.70	kJ/mol	298.15	The vaporization enthalpy and vapor pressure of S (+)-methamphetamine at T = 298.15 K by correlation gas chromatography
pvap	0.04	kPa	298.15	The vaporization enthalpy and vapor pressure of S (+)-methamphetamine at T = 298.15 K by correlation gas chromatography

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

The vaporization enthalpy and vapor pressure of S (+)-methamphetamine at T = 298.15 K by correlation gas chromatography:	https://www.doi.org/10.1016/j.jct.2013.08.005
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=C33817093&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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume