Benzeneethanamine, N,«alpha»-dimethyl-

Other names:	Phenethylamine, N,«alpha»-dimethyl-
	Deoxyephedrine
	Ephedrine, deoxy-
	2-Methylamino-1-phenylpropane
	Anadrex
	Desoxyephedrine
	N-Methylamphetamine
	N-Methyl-«beta»-phenylisopropylamin
	N-Methyl-«beta»-phenylisopropylamine
	Pervertin
	«alpha»-Phenyl-«beta»-methylaminopropane
	Benzenethanamine,N,«alpha»-dimethyl-
	(.+/-.)-Methamphetamine
	(2-Methylaminopropyl)benzene
	dl-Desoxyephedrine
	dl-Methamphetamin
	DL-Methamphetamine
	N,«alpha»-Dimethylbenzeneethanamine
	N,«alpha»-Dimethylphenethylamine
	N-Methyl-1-phenyl-2-propylamine
	(.+/-.)-N,«alpha»-Dimethylbenzeneethanamine
	Methamphetamine
	Methylamphetamine
	(+)-Methamphetamine
	Desoxyn
	Methedrine
	Stimulex
	Benzeneethanamine, dimethyl-
	Amphetamine, methyl-
	N-Methyl-1-phenyl-2-propanamine
Inchi:	InChI=1S/C10H15N/c1-9(11-2)8-10-6-4-3-5-7-10/h3-7,9,11H,8H2,1-2H3
InchiKey:	MYWUZJCMWCOHBA-UHFFFAOYSA-N
Formula:	C10H15N
SMILES:	CNC(C)Cc1ccccc1
Mol. weight [g/mol]:	149.23
CAS:	7632-10-2

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
ie	8.60 ± 0.20	eV	NIST Webbook
log10ws	-2.41		Crippen Method
logp	1.837		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
rinpol	1170.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1195.00		NIST Webbook
rinpol	1193.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1177.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1174.00		NIST Webbook
rinpol	1188.00		NIST Webbook
rinpol	1186.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1170.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1185.00		NIST Webbook
rinpol	1173.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1201.60		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1194.00		NIST Webbook
rinpol	1194.00		NIST Webbook
rinpol	1197.00		NIST Webbook

rinpol	1198.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1176.00		NIST Webbook
rinpol	1164.00		NIST Webbook
rinpol	1161.00		NIST Webbook
rinpol	1173.00		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1190.00		NIST Webbook
ripol	1614.00		NIST Webbook
ripol	1590.00		NIST Webbook
ripol	1614.00		NIST Webbook
ripol	1590.00		NIST Webbook
ripol	1633.00		NIST Webbook
ripol	1623.00		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	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	361.90	J/mol×K	645.30	Joback Method
cpg	374.08	J/mol×K	680.47	Joback Method
cpg	385.49	J/mol×K	715.64	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C7632102&Units=SI

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

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
ie:	Ionization energy
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume