(-)-Norephedrine

Other names:	Benzenemethanol, «alpha»-(1-aminoethyl)-, [R-(R*,S*)]-
	L-norephedrine
	Norephedrine, (-)-
	Benzyl alcohol,«alpha»-(1-aminoethyl)-
	Mydriatin
	USAF CS-6
	1-Propanol, 2-amino-1-phenyl-, (-)-
	2-Amino-1-phenyl-1-propanol
	(-)-Norephedrin
	(1R,2S)-(-)-Norephedrine
	Phenylpropanolamine
	(1R,2S)-2-Amino-1-phenyl-1-propanol
	(1R,2S)-Norephedrine
	(R,S)-(-)-Norephedrine
	Benzenemethanol, «alpha»-((1S)-1-aminoethyl)-, («alpha»R)-
	erythro-(1R,2S)-Norephedrine
	l-Phenylpropanolamine
	NSC 17704
	[R-(R*,S*)]-«alpha»-(1-aminoethyl)benzyl alcohol
	(-) 2-Amino-1-phenyl-1-propanol (norephedrine)
Inchi:	InChI=1S/C9H13NO/c1-7(10)9(11)8-5-3-2-4-6-8/h2-7,9,11H,10H2,1H3/t7-,9-/m1/s1
InchiKey:	DLNKOYKMWOXYQA-VXNVDRBHSA-N
Formula:	C9H13NO
SMILES:	CC(N)C(O)c1ccccc1
Mol. weight [g/mol]:	151.21
CAS:	492-41-1

Physical Properties

Property code	Value	Unit	Source
gf	62.06	kJ/mol	Joback Method
hf	-121.56	kJ/mol	Joback Method
hfus	15.35	kJ/mol	Joback Method
hvap	64.45	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.067		Crippen Method
mcvol	129.760	ml/mol	McGowan Method
pc	3975.52	kPa	Joback Method

rinpol	1308.00		NIST Webbook
rinpol	1310.00		NIST Webbook
rinpol	1313.00		NIST Webbook
rinpol	1304.00		NIST Webbook
rinpol	1326.00		NIST Webbook
rinpol	1291.00		NIST Webbook
rinpol	1310.00		NIST Webbook
rinpol	1310.00		NIST Webbook
rinpol	1313.00		NIST Webbook
rinpol	1308.00		NIST Webbook
rinpol	1310.00		NIST Webbook
rinpol	1287.00		NIST Webbook
rinpol	1300.00		NIST Webbook
rinpol	1304.00		NIST Webbook
rinpol	1321.00		NIST Webbook
rinpol	1331.00		NIST Webbook
rinpol	1331.00		NIST Webbook
rinpol	1332.00		NIST Webbook
rinpol	1339.00		NIST Webbook
rinpol	1289.00		NIST Webbook
rinpol	1287.00		NIST Webbook
rinpol	1308.00		NIST Webbook
rinpol	1304.00		NIST Webbook
ripol	2231.00		NIST Webbook
tb	595.83	K	Joback Method
tc	808.08	K	Joback Method
tf	331.69	K	Joback Method
vc	0.468	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.04	J/mol×K	595.83	Joback Method
cpg	335.03	J/mol×K	631.21	Joback Method
cpg	346.24	J/mol×K	666.58	Joback Method
cpg	356.72	J/mol×K	701.96	Joback Method
cpg	366.49	J/mol×K	737.33	Joback Method
cpg	375.60	J/mol×K	772.71	Joback Method
cpg	384.09	J/mol×K	808.08	Joback Method
hfust	15.87	kJ/mol	324.40	NIST Webbook

Sources

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=C492411&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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