

alpha.-Methylbenzylamine

Other names:	Benzenemethanamine, «alpha»-methyl-, (.+/-.)- Benzylamine, «alpha»-methyl-, (.+/-.)- (.+/-.)-«alpha»-Methylbenzylamine (.+/-.)-«alpha»-Phenylethylamine (.+/-.)-1-Phenethylamine (.+/-.)-1-Phenylethylamine DL-«alpha»-Phenylethylamine DL-1-Phenylethylamine Benzenemethanamine, «alpha»-methyl-, (±)- Benzylamine, «alpha»-methyl-, (±)- 1-Amino-1-phenylethane 1-Phenylethylamine Benzenemethanamine, «alpha»-methyl- DL-«alpha»-Methylbenzylamine Ethanamine, 1-phenyl- NSC 8391 «alpha»-methyl benzylamine
Inchi:	InChI=1S/C8H11N/c1-7(9)8-5-3-2-4-6-8/h2-7H,9H2,1H3
InchiKey:	RQEUFKEYXDPUSK-UHFFFAOYSA-N
Formula:	C8H11N
SMILES:	CC(N)c1ccccc1
Mol. weight [g/mol]:	121.18
CAS:	98-84-0

Physical Properties

Property code	Value	Unit	Source
gf	192.90	kJ/mol	Joback Method
hf	56.59	kJ/mol	Joback Method
hfus	12.19	kJ/mol	Joback Method
hvap	54.90 ± 0.30	kJ/mol	NIST Webbook
log10ws	-2.17		Crippen Method
logp	1.706		Crippen Method
mcvol	109.800	ml/mol	McGowan Method
pc	3955.54	kPa	Joback Method
rinpol	1050.00		NIST Webbook
rinpol	1029.00		NIST Webbook
rinpol	1019.50		NIST Webbook

rmpol	1029.00		NIST Webbook
rmpol	1031.00		NIST Webbook
rmpol	1031.00		NIST Webbook
tb	481.21	K	Joback Method
tc	709.62	K	Joback Method
tf	274.60	K	Joback Method
vc	0.399	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.83	J/mol×K	481.21	Joback Method
cpg	242.28	J/mol×K	519.28	Joback Method
cpg	254.86	J/mol×K	557.35	Joback Method
cpg	266.60	J/mol×K	595.41	Joback Method
cpg	277.54	J/mol×K	633.48	Joback Method
cpg	287.73	J/mol×K	671.55	Joback Method
cpg	297.20	J/mol×K	709.62	Joback Method
hvapt	54.70 ± 0.30	kJ/mol	300.50	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C98840&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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