

Benzenemethanamine, 2-methyl-

Other names:	2-Methylbenzylamine Benzylamine, o-methyl- o-Methylbenzylamine
Inchi:	InChI=1S/C8H11N/c1-7-4-2-3-5-8(7)6-9/h2-5H,6,9H2,1H3
InchiKey:	CJAAPVQEZPAQNI-UHFFFAOYSA-N
Formula:	C8H11N
SMILES:	Cc1ccccc1CN
Mol. weight [g/mol]:	121.18
CAS:	89-93-0

Physical Properties

Property code	Value	Unit	Source
gf	185.71	kJ/mol	Joback Method
hf	50.40	kJ/mol	Joback Method
hfus	15.32	kJ/mol	Joback Method
hvap	46.98	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	1.454		Crippen Method
mcvol	109.800	ml/mol	McGowan Method
pc	3843.54	kPa	Joback Method
tb	472.20	K	NIST Webbook
tc	710.97	K	Joback Method
tf	302.12	K	Joback Method
vc	0.405	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.77	J/mol×K	486.63	Joback Method
cpg	241.38	J/mol×K	524.02	Joback Method
cpg	253.24	J/mol×K	561.41	Joback Method
cpg	264.37	J/mol×K	598.80	Joback Method
cpg	274.81	J/mol×K	636.19	Joback Method
cpg	284.60	J/mol×K	673.58	Joback Method

cpg

293.75

J/mol×K

710.97

Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	478.70	K	99.30	NIST Webbook

Sources

KDB:	https://www.cheric.org/files/research/kdb/mol/mol1397.mol
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C89930&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

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
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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