Benzamide, n-benzyl-2-(methylamino)-

Inchi: InChI=1S/C15H16N2O/c1-16-14-10-6-5-9-13(14)15(18)17-11-12-7-3-2-4-8-12/h2-10,16H
InchiKey: ZZBQSMGHRZEZIB-UHFFFAOYSA-N
Formula: C15H16N2O
SMILES: CNc1ccccc1C(=O)NCc1ccccc1
Mol. weight [g/mol]: 240.30
CAS: 56042-78-5

Physical Properties

Property code	Value	Unit	Source
gf	340.47	kJ/mol	Joback Method
hf	103.02	kJ/mol	Joback Method
hfus	34.10	kJ/mol	Joback Method
hvap	73.82	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	2.658		Crippen Method
mcvol	196.220	ml/mol	McGowan Method
pc	2707.03	kPa	Joback Method
tb	755.15	K	Joback Method
tc	992.05	K	Joback Method
tf	479.42	K	Joback Method
vc	0.736	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	544.06	J/mol×K	755.15	Joback Method
cpg	558.42	J/mol×K	794.63	Joback Method
cpg	571.61	J/mol×K	834.12	Joback Method
cpg	583.70	J/mol×K	873.60	Joback Method
cpg	594.77	J/mol×K	913.08	Joback Method
cpg	604.89	J/mol×K	952.56	Joback Method
cpg	614.14	J/mol×K	992.05	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56042785&Units=SI

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume