

N-(1-methylethyl)-N-methyl-benzamide

Inchi:	InChI=1S/C11H15NO/c1-9(2)12(3)11(13)10-7-5-4-6-8-10/h4-9H,1-3H3
InchiKey:	PPFKFDRATGWCNU-UHFFFAOYSA-N
Formula:	C11H15NO
SMILES:	CC(C)N(C)C(=O)c1ccccc1
Mol. weight [g/mol]:	177.24

Physical Properties

Property code	Value	Unit	Source
gf	133.57	kJ/mol	Joback Method
hf	-84.17	kJ/mol	Joback Method
hfus	19.38	kJ/mol	Joback Method
hvap	50.76	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.167		Crippen Method
mcvol	153.640	ml/mol	McGowan Method
pc	2847.48	kPa	Joback Method
ripol	1611.08		NIST Webbook
ripol	1562.64		NIST Webbook
ripol	1577.03		NIST Webbook
ripol	1596.41		NIST Webbook
ripol	2454.85		NIST Webbook
ripol	2440.39		NIST Webbook
ripol	2426.03		NIST Webbook
ripol	2426.03		NIST Webbook
tb	543.63	K	Joback Method
tc	756.66	K	Joback Method
tf	307.55	K	Joback Method
vc	0.561	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	356.68	J/molxK	543.63	Joback Method
cpg	372.53	J/molxK	579.13	Joback Method

cpg	387.36	J/mol×K	614.64	Joback Method
cpg	401.22	J/mol×K	650.14	Joback Method
cpg	414.16	J/mol×K	685.65	Joback Method
cpg	426.23	J/mol×K	721.15	Joback Method
cpg	437.47	J/mol×K	756.66	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R194022&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
rinpola:	Non-polar retention indices
ripola:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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