

2-Amino-N-methylbenzamide

Inchi:	InChI=1S/C8H10N2O/c1-10-8(11)6-4-2-3-5-7(6)9/h2-5H,9H2,1H3,(H,10,11)
InchiKey:	KIMWOULVHFLJIU-UHFFFAOYSA-N
Formula:	C8H10N2O
SMILES:	CNC(=O)c1ccccc1N
Mol. weight [g/mol]:	150.18
CAS:	4141-08-6

Physical Properties

Property code	Value	Unit	Source
gf	146.18	kJ/mol	Joback Method
hf	-8.71	kJ/mol	Joback Method
hfus	22.02	kJ/mol	Joback Method
hvap	60.16	kJ/mol	Joback Method
log10ws	-1.45		Crippen Method
logp	0.628		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4233.04	kPa	Joback Method
tb	590.67	K	Joback Method
tc	823.28	K	Joback Method
tf	404.71	K	Joback Method
vc	0.446	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.50	J/molxK	590.67	Joback Method
cpg	297.98	J/molxK	629.44	Joback Method
cpg	308.67	J/molxK	668.21	Joback Method
cpg	318.60	J/molxK	706.98	Joback Method
cpg	327.79	J/molxK	745.75	Joback Method
cpg	336.28	J/molxK	784.52	Joback Method
cpg	344.12	J/molxK	823.28	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=C4141086&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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