2-Amino-6-methylbenzoic acid

Other names:	6-Amino-o-toluic acid
	Benzoic acid, 2-amino-6-methyl-
Inchi:	InChI=1S/C8H9NO2/c1-5-3-2-4-6(9)7(5)8(10)11/h2-4H,9H2,1H3,(H,10,11)
InchiKey:	XHYVBIXKORFHFM-UHFFFAOYSA-N
Formula:	C8H9NO2
SMILES:	Cc1cccc(N)c1C(=O)O
Mol. weight [g/mol]:	151.16
CAS:	4389-50-8

Physical Properties

Property code	Value	Unit	Source
gf	-89.66	kJ/mol	Joback Method
hf	-225.88	kJ/mol	Joback Method
hfus	20.62	kJ/mol	Joback Method
hsub	116.10 ± 2.00	kJ/mol	NIST Webbook
hvap	71.07	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.275		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	4608.87	kPa	Joback Method
tb	637.66	K	Joback Method
tc	853.80	K	Joback Method
tf	425.39	K	Joback Method
vc	0.429	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.68	J/mol×K	817.78	Joback Method
cpg	284.29	J/mol×K	637.66	Joback Method
cpg	293.26	J/mol×K	673.68	Joback Method
cpg	301.67	J/mol×K	709.71	Joback Method
cpg	309.53	J/mol×K	745.73	Joback Method
cpg	316.86	J/mol×K	781.76	Joback Method

cpg	330.01	J/mol×K	853.80	Joback Method
hfust	27.49	kJ/mol	398.70	NIST Webbook
hsubt	114.70 ± 1.20	kJ/mol	347.00	NIST Webbook

Sources

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=C4389508&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
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