p-(Dimethylamino)cinnamic acid

Other names:	4-(N,N-Dimethylamino)cinnamic acid
	4-Dimethylamino cinnamic acid
	Dimethylaminocinnamic acid
	2-Propenoic acid, 3-[4-(dimethylamino)phenyl]-
	4-(N-Dimethylamino)cinnamic acid
	3-(p-(Dimethylamino)phenyl)acrylic acid
Inchi:	InChI=1S/C11H13NO2/c1-12(2)10-6-3-9(4-7-10)5-8-11(13)14/h3-8H,1-2H3,(H,13,14)/b8-
InchiKey:	CQNPVMCASGWEHM-VMPITWQZSA-N
Formula:	C11H13NO2
SMILES:	CN(C)c1ccc(C=CC(=O)O)cc1
Mol. weight [g/mol]:	191.23
CAS:	1552-96-1

Physical Properties

Property code	Value	Unit	Source
gf	69.78	kJ/mol	Joback Method
hf	-125.37	kJ/mol	Joback Method
hfus	26.81	kJ/mol	Joback Method
hvap	68.44	kJ/mol	Joback Method
log10ws	-1.72		Crippen Method
logp	1.850		Crippen Method
mcvol	155.210	ml/mol	McGowan Method
pc	3254.14	kPa	Joback Method
tb	645.39	K	Joback Method
tc	849.07	K	Joback Method
tf	390.81	K	Joback Method
vc	0.567	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.64	J/mol×K	645.39	Joback Method
cpg	401.25	J/mol×K	679.34	Joback Method
cpg	412.11	J/mol×K	713.28	Joback Method

cpg	422.25	J/mol×K	747.23	Joback Method
cpg	431.75	J/mol×K	781.18	Joback Method
cpg	440.63	J/mol×K	815.12	Joback Method
cpg	448.95	J/mol×K	849.07	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1552961&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume