N-(m-chlorophenyl) acrylamine

Inchi: InChI=1S/C9H8ClNO/c1-2-9(12)11-8-5-3-4-7(10)6-8/h2-6H,1H2,(H,11,12)
InchiKey: NZXQEWMZAUGCLB-UHFFFAOYSA-N
Formula: C9H8ClNO
SMILES: C=CC(=O)Nc1cccc(Cl)c1
Mol. weight [g/mol]: 181.62
CAS: 7017-16-5

Physical Properties

Property code	Value	Unit	Source
gf	164.06	kJ/mol	Joback Method
hf	46.55	kJ/mol	Joback Method
hfus	22.33	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.464		Crippen Method
mcvol	133.400	ml/mol	McGowan Method
pc	3522.09	kPa	Joback Method
tb	575.13	K	Joback Method
tc	804.25	K	Joback Method
tf	360.88	K	Joback Method
vc	0.502	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.83	J/mol×K	575.13	Joback Method
cpg	293.87	J/mol×K	613.32	Joback Method
cpg	304.12	J/mol×K	651.50	Joback Method
cpg	313.60	J/mol×K	689.69	Joback Method
cpg	322.37	J/mol×K	727.88	Joback Method
cpg	330.46	J/mol×K	766.07	Joback Method
cpg	337.92	J/mol×K	804.25	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7017165&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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