Benzamide, 4-chloro-N-ethyl-N-methyl-

Inchi: InChI=1S/C10H12ClNO/c1-3-12(2)10(13)8-4-6-9(11)7-5-8/h4-7H,3H2,1-2H3
InchiKey: HTWMOIITBSJBBJ-UHFFFAOYSA-N
Formula: C10H12ClNO
SMILES: CCN(C)C(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 197.66

Physical Properties

Property code	Value	Unit	Source
gf	106.03	kJ/mol	Joback Method
hf	-85.46	kJ/mol	Joback Method
hfus	24.12	kJ/mol	Joback Method
hvap	53.97	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.432		Crippen Method
mcvol	151.790	ml/mol	McGowan Method
pc	2960.12	kPa	Joback Method
rinpol	1850.00		NIST Webbook
rinpol	1850.00		NIST Webbook
tb	563.60	K	Joback Method
tc	781.07	K	Joback Method
tf	353.72	K	Joback Method
vc	0.560	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	337.15	J/mol×K	563.60	Joback Method
cpg	350.55	J/mol×K	599.85	Joback Method
cpg	363.06	J/mol×K	636.09	Joback Method
cpg	374.73	J/mol×K	672.34	Joback Method
cpg	385.61	J/mol×K	708.58	Joback Method
cpg	395.72	J/mol×K	744.83	Joback Method
cpg	405.11	J/mol×K	781.07	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415319&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume