Urea, N'-(3-chlorophenyl)-N,N-dimethyl-

Other names:	Urea, 3-(m-chlorophenyl)-1,1-dimethyl- C 2034 N'-(3-Chlorophenyl)-N,N-Dimethylurea 1-(3-Chlorophenyl)-3,3-dimethylurea 1-m-Chlorophenyl-3,3-dimethylurea 3-(3-Chlorophenyl)-1,1-dimethylurea Urea, 1-(m-chlorophenyl)-3,3-dimethyl- N,N-Dimethyl-N'-(3-chlorophenyl)-urea
Inchi:	InChI=1S/C9H11ClN2O/c1-12(2)9(13)11-8-5-3-4-7(10)6-8/h3-6H,1-2H3,(H,11,13)
InchiKey:	QLQDWOFJALEHSP-UHFFFAOYSA-N
Formula:	C9H11ClN2O
SMILES:	CN(C)C(=O)Nc1cccc(Cl)c1
Mol. weight [g/mol]:	198.65
CAS:	587-34-8

Physical Properties

Property code	Value	Unit	Source
gf	187.00	kJ/mol	Joback Method
hf	-11.35	kJ/mol	Joback Method
hfus	26.63	kJ/mol	Joback Method
hvap	58.18	kJ/mol	Joback Method
log10ws	-2.33		Crippen Method
logp	2.433		Crippen Method
mcvol	147.680	ml/mol	McGowan Method
pc	3345.11	kPa	Joback Method
tb	590.89	K	Joback Method
tc	811.66	K	Joback Method
tf	395.11	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	337.65	J/mol×K	590.89	Joback Method

cpg	350.07	J/mol×K	627.68	Joback Method
cpg	361.63	J/mol×K	664.48	Joback Method
cpg	372.36	J/mol×K	701.27	Joback Method
cpg	382.31	J/mol×K	738.07	Joback Method
cpg	391.52	J/mol×K	774.86	Joback Method
cpg	400.03	J/mol×K	811.66	Joback Method

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=C587348&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
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