Urea, 1-[p-(dimethylaminophenyl)]-3-methyl-

Other names: 1-[4-(dimethylamino)phenyl]-3-methylurea
Inchi: InChI=1S/C10H15N3O/c1-11-10(14)12-8-4-6-9(7-5-8)13(2)3/h4-7H,1-3H3,(H2,11,12,14)
InchiKey: YIEYUMZIUOPBII-UHFFFAOYSA-N
Formula: C10H15N3O
SMILES: CNC(=O)Nc1ccc(N(C)C)cc1
Mol. weight [g/mol]: 193.25
CAS: 6956-24-7

Physical Properties

Property code	Value	Unit	Source
gf	296.74	kJ/mol	Joback Method
hf	37.22	kJ/mol	Joback Method
hfus	30.13	kJ/mol	Joback Method
hvap	62.45	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	1.504		Crippen Method
mcvol	159.510	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
tb	626.51	K	Joback Method
tc	839.11	K	Joback Method
tf	429.12	K	Joback Method
vc	0.582	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.56	J/mol×K	626.51	Joback Method
cpg	422.38	J/mol×K	661.94	Joback Method
cpg	435.29	J/mol×K	697.38	Joback Method
cpg	447.33	J/mol×K	732.81	Joback Method
cpg	458.54	J/mol×K	768.24	Joback Method
cpg	468.97	J/mol×K	803.68	Joback Method
cpg	478.67	J/mol×K	839.11	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6956247&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