

N,N-Dimethyl-N'-(4-nitrophenyl)-p-chlorobenzamide

Inchi:	InChI=1S/C15H14ClN3O2/c1-18(2)15(11-3-5-12(16)6-4-11)17-13-7-9-14(10-8-13)19(20)
InchiKey:	APKZMXNDMLBHKH-BMRADRMJSA-N
Formula:	C15H14ClN3O2
SMILES:	CN(C)C(=Nc1ccc([N+](=O)[O-])cc1)c1ccc(Cl)cc1
Mol. weight [g/mol]:	303.74

Physical Properties

Property code	Value	Unit	Source
hf	210.65	kJ/mol	Joback Method
hvap	81.27	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	3.888		Crippen Method
mcpvol	220.010	ml/mol	McGowan Method
pc	2157.31	kPa	Joback Method
rinpol	2578.00		NIST Webbook
tb	884.19	K	Joback Method
tc	1152.81	K	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R159029&Units=SI

Legend

hf:	Enthalpy of formation 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

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