

4-Chloro-m-cresol, isoBOC

Inchi:	InChI=1S/C12H15ClO3/c1-8(2)7-15-12(14)16-10-4-5-11(13)9(3)6-10/h4-6,8H,7H2,1-3H3
InchiKey:	AMVZTDGGEWZDNH-UHFFFAOYSA-N
Formula:	C12H15ClO3
SMILES:	Cc1cc(OC(=O)OCC(C)C)ccc1Cl
Mol. weight [g/mol]:	242.70

Physical Properties

Property code	Value	Unit	Source
gf	-209.98	kJ/mol	Joback Method
hf	-475.46	kJ/mol	Joback Method
hfus	24.75	kJ/mol	Joback Method
hvap	61.47	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.820		Crippen Method
mcvol	181.730	ml/mol	McGowan Method
pc	2336.03	kPa	Joback Method
rinpol	1665.00		NIST Webbook
rinpol	1665.00		NIST Webbook
tb	646.30	K	Joback Method
tc	859.87	K	Joback Method
tf	385.77	K	Joback Method
vc	0.684	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.19	J/molxK	646.30	Joback Method
cpg	460.07	J/molxK	681.89	Joback Method
cpg	473.16	J/molxK	717.49	Joback Method
cpg	485.45	J/molxK	753.08	Joback Method
cpg	496.94	J/molxK	788.68	Joback Method
cpg	507.62	J/molxK	824.27	Joback Method
cpg	517.51	J/molxK	859.87	Joback Method
dvisc	0.0010947	Paxs	385.77	Joback Method

dvisc	0.0006360	Paxs	429.19	Joback Method
dvisc	0.0004082	Paxs	472.61	Joback Method
dvisc	0.0002824	Paxs	516.03	Joback Method
dvisc	0.0002068	Paxs	559.46	Joback Method
dvisc	0.0001584	Paxs	602.88	Joback Method
dvisc	0.0001258	Paxs	646.30	Joback Method

Sources

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=R235173&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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

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