

4-Chlorobenzoic acid, 4-methoxy-2-methylbutyl ester

Inchi:	InChI=1S/C13H17ClO3/c1-10(7-8-16-2)9-17-13(15)11-3-5-12(14)6-4-11/h3-6,10H,7-9H2
InchiKey:	CPQYPQHGPXSFPG-UHFFFAOYSA-N
Formula:	C13H17ClO3
SMILES:	COCCC(C)COC(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]:	256.73

Physical Properties

Property code	Value	Unit	Source
gf	-191.93	kJ/mol	Joback Method
hf	-484.63	kJ/mol	Joback Method
hfus	27.73	kJ/mol	Joback Method
hvap	63.03	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.169		Crippen Method
mcvol	195.820	ml/mol	McGowan Method
pc	2163.33	kPa	Joback Method
rinsol	1868.00		NIST Webbook
tb	664.20	K	Joback Method
tc	873.60	K	Joback Method
tf	384.52	K	Joback Method
vc	0.741	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	497.88	J/molxK	664.20	Joback Method
cpg	512.51	J/molxK	699.10	Joback Method
cpg	526.26	J/molxK	734.00	Joback Method
cpg	539.15	J/molxK	768.90	Joback Method
cpg	551.19	J/molxK	803.80	Joback Method
cpg	562.37	J/molxK	838.70	Joback Method
cpg	572.71	J/molxK	873.60	Joback Method
dvisc	0.0012831	Paxs	384.52	Joback Method
dvisc	0.0006881	Paxs	431.13	Joback Method

dvisc	0.0004167	Paxs	477.75	Joback Method
dvisc	0.0002759	Paxs	524.36	Joback Method
dvisc	0.0001954	Paxs	570.97	Joback Method
dvisc	0.0001458	Paxs	617.59	Joback Method
dvisc	0.0001133	Paxs	664.20	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=U354628&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	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:	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

Latest version available from:

<https://www.chemeo.com/cid/54-330-5/4-Chlorobenzoic-acid-4-methoxy-2-methylbutyl-ester.pdf>

Generated by Cheméo on 2024-04-28 09:49:55.0604379 +0000 UTC m=+16587043.981015215.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.