

2-(2-Methoxyethoxy)ethyl 2-chlorobenzoate

Inchi:	InChI=1S/C12H15ClO4/c1-15-6-7-16-8-9-17-12(14)10-4-2-3-5-11(10)13/h2-5H,6-9H2,1H
InchiKey:	MNEMAOBTDWZSSM-UHFFFAOYSA-N
Formula:	C12H15ClO4
SMILES:	COCCOCCOC(=O)c1ccccc1Cl
Mol. weight [g/mol]:	258.70

Physical Properties

Property code	Value	Unit	Source
gf	-302.91	kJ/mol	Joback Method
hf	-590.93	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	63.61	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	2.160		Crippen Method
mvol	187.600	ml/mol	McGowan Method
pc	2313.61	kPa	Joback Method
rinpol	1868.00		NIST Webbook
rinpol	1868.00		NIST Webbook
tb	664.18	K	Joback Method
tc	870.77	K	Joback Method
tf	410.48	K	Joback Method
vc	0.709	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.93	J/molxK	664.18	Joback Method
cpg	485.46	J/molxK	698.61	Joback Method
cpg	498.20	J/molxK	733.04	Joback Method
cpg	510.16	J/molxK	767.48	Joback Method
cpg	521.32	J/molxK	801.91	Joback Method
cpg	531.67	J/molxK	836.34	Joback Method
cpg	541.22	J/molxK	870.77	Joback Method
dvisc	0.0008314	Paxs	410.48	Joback Method

dvisc	0.0005033	Paxs	452.76	Joback Method
dvisc	0.0003319	Paxs	495.05	Joback Method
dvisc	0.0002337	Paxs	537.33	Joback Method
dvisc	0.0001732	Paxs	579.61	Joback Method
dvisc	0.0001337	Paxs	621.90	Joback Method
dvisc	0.0001067	Paxs	664.18	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378260&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

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