

2-Benzyloxyethyl chloroformate

Inchi:	InChI=1S/C10H11ClO3/c11-10(12)14-7-6-13-8-9-4-2-1-3-5-9/h1-5H,6-8H2
InchiKey:	QXVIJZMVCKUMER-UHFFFAOYSA-N
Formula:	C10H11ClO3
SMILES:	O=C(Cl)OCCOCc1ccccc1
Mol. weight [g/mol]:	214.65
CAS:	56456-19-0

Physical Properties

Property code	Value	Unit	Source
gf	-205.12	kJ/mol	Joback Method
hf	-405.96	kJ/mol	Joback Method
hfus	23.87	kJ/mol	Joback Method
hvap	56.08	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.579		Crippen Method
mcvol	153.550	ml/mol	McGowan Method
pc	2906.11	kPa	Joback Method
rinpol	1517.00		NIST Webbook
tb	591.02	K	Joback Method
tc	805.61	K	Joback Method
tf	353.19	K	Joback Method
vc	0.579	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.22	J/molxK	591.02	Joback Method
cpg	405.62	J/molxK	769.84	Joback Method
cpg	395.98	J/molxK	734.08	Joback Method
cpg	385.63	J/molxK	698.31	Joback Method
cpg	374.55	J/molxK	662.55	Joback Method
cpg	362.75	J/molxK	626.78	Joback Method
cpg	414.55	J/molxK	805.61	Joback Method
dvisc	0.0001718	Paxs	591.02	Joback Method

dvisc	0.0002177	Paxs	551.38	Joback Method
dvisc	0.0002861	Paxs	511.74	Joback Method
dvisc	0.0003938	Paxs	472.11	Joback Method
dvisc	0.0005748	Paxs	432.47	Joback Method
dvisc	0.0009053	Paxs	392.83	Joback Method
dvisc	0.0015790	Paxs	353.19	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56456190&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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