

Carbonic acid, 2-chloroethyl 4-benzyloxyphenyl ester

Inchi: InChI=1S/C16H15ClO4/c17-10-11-19-16(18)21-15-8-6-14(7-9-15)20-12-13-4-2-1-3-5-13/
InchiKey: WAYYAWJZDCWAHE-UHFFFAOYSA-N
Formula: C16H15ClO4
SMILES: O=C(OCCCl)Oc1ccc(OCc2ccccc2)cc1
Mol. weight [g/mol]: 306.74

Physical Properties

Property code	Value	Unit	Source
gf	-156.82	kJ/mol	Joback Method
hf	-436.96	kJ/mol	Joback Method
hfus	34.25	kJ/mol	Joback Method
hvap	74.78	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	4.020		Crippen Method
mcvol	220.200	ml/mol	McGowan Method
pc	2200.01	kPa	Joback Method
rinpol	2467.00		NIST Webbook
rinpol	2467.00		NIST Webbook
tb	782.38	K	Joback Method
tc	1012.63	K	Joback Method
tf	481.98	K	Joback Method
vc	0.825	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	595.82	J/molxK	782.38	Joback Method
cpg	609.48	J/molxK	820.75	Joback Method
cpg	621.92	J/molxK	859.13	Joback Method
cpg	633.17	J/molxK	897.50	Joback Method
cpg	643.25	J/molxK	935.88	Joback Method
cpg	652.15	J/molxK	974.25	Joback Method
cpg	659.91	J/molxK	1012.63	Joback Method
dvisc	0.0005268	Paxs	481.98	Joback Method

dvisc	0.0003161	Paxs	532.05	Joback Method
dvisc	0.0002071	Paxs	582.11	Joback Method
dvisc	0.0001451	Paxs	632.18	Joback Method
dvisc	0.0001071	Paxs	682.25	Joback Method
dvisc	0.0000824	Paxs	732.31	Joback Method
dvisc	0.0000655	Paxs	782.38	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357891&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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