

4-Benzyloxy-3-chlorophenylacetic acid

Other names:	[3-chloro-4-(phenylmethoxy)phenyl]acetic acid
Inchi:	InChI=1S/C15H13ClO3/c16-13-8-12(9-15(17)18)6-7-14(13)19-10-11-4-2-1-3-5-11/h1-8H
InchiKey:	DFHBBMJTBBLQSA-UHFFFAOYSA-N
Formula:	C15H13ClO3
SMILES:	O=C(O)Cc1ccc(OCc2ccccc2)c(Cl)c1
Mol. weight [g/mol]:	276.71
CAS:	60736-70-1

Physical Properties

Property code	Value	Unit	Source
gf	-101.69	kJ/mol	Joback Method
hf	-315.58	kJ/mol	Joback Method
hfus	32.98	kJ/mol	Joback Method
hvap	85.08	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	3.546		Crippen Method
mcvol	200.240	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
rinpol	2207.00		NIST Webbook
rinpol	2207.00		NIST Webbook
tb	811.82	K	Joback Method
tc	1036.15	K	Joback Method
tf	499.59	K	Joback Method
vc	0.751	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.58	J/molxK	811.82	Joback Method
cpg	549.47	J/molxK	849.21	Joback Method
cpg	559.45	J/molxK	886.60	Joback Method
cpg	568.55	J/molxK	923.98	Joback Method
cpg	576.82	J/molxK	961.37	Joback Method
cpg	584.29	J/molxK	998.76	Joback Method

cpg	591.00	J/mol×K	1036.15	Joback Method
dvisc	0.0004747	Paxs	499.59	Joback Method
dvisc	0.0002253	Paxs	551.63	Joback Method
dvisc	0.0001216	Paxs	603.67	Joback Method
dvisc	0.0000724	Paxs	655.70	Joback Method
dvisc	0.0000465	Paxs	707.74	Joback Method
dvisc	0.0000317	Paxs	759.78	Joback Method
dvisc	0.0000228	Paxs	811.82	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C60736701&Units=SI

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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