

2-Benzyloxyphenylacetic acid

Other names:	O-Benzyloxyphenylacetic acid
Inchi:	InChI=1S/C15H14O3/c16-15(17)10-13-8-4-5-9-14(13)18-11-12-6-2-1-3-7-12/h1-9H,10-1
InchiKey:	VFYKRBZHJFJOGQ-UHFFFAOYSA-N
Formula:	C15H14O3
SMILES:	O=C(O)Cc1ccccc1OCc1ccccc1
Mol. weight [g/mol]:	242.27
CAS:	22047-88-7

Physical Properties

Property code	Value	Unit	Source
gf	-80.13	kJ/mol	Joback Method
hf	-288.37	kJ/mol	Joback Method
hfus	29.17	kJ/mol	Joback Method
hvap	80.03	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	2.893		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
tb	769.41	K	Joback Method
tc	990.02	K	Joback Method
tf	457.15	K	Joback Method
vc	0.703	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.05	J/molxK	769.41	Joback Method
cpg	569.53	J/molxK	953.25	Joback Method
cpg	560.97	J/molxK	916.48	Joback Method
cpg	551.58	J/molxK	879.72	Joback Method
cpg	541.33	J/molxK	842.95	Joback Method
cpg	530.17	J/molxK	806.18	Joback Method
cpg	577.31	J/molxK	990.02	Joback Method
dvisc	0.0000272	Paxs	769.41	Joback Method

dvisc	0.0000390	Paxs	717.37	Joback Method
dvisc	0.0000592	Paxs	665.32	Joback Method
dvisc	0.0000965	Paxs	613.28	Joback Method
dvisc	0.0001721	Paxs	561.24	Joback Method
dvisc	0.0003455	Paxs	509.19	Joback Method
dvisc	0.0008128	Paxs	457.15	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C22047887&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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