

(S)-1,1-bis(4-Methoxyphenyl)propan-2-ol

Inchi:	InChI=1S/C17H20O3/c1-12(18)17(13-4-8-15(19-2)9-5-13)14-6-10-16(20-3)11-7-14/h4-12
InchiKey:	NHUSVJTYMHUAP-LBPRGKRZSA-N
Formula:	C17H20O3
SMILES:	COc1ccc(C(c2ccc(OC)cc2)C(C)O)cc1
Mol. weight [g/mol]:	272.34
CAS:	212516-39-7

Physical Properties

Property code	Value	Unit	Source
gf	-53.88	kJ/mol	Joback Method
hf	-371.32	kJ/mol	Joback Method
hfus	26.51	kJ/mol	Joback Method
hvap	80.04	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.216		Crippen Method
mvol	220.480	ml/mol	McGowan Method
pc	2175.46	kPa	Joback Method
rinpol	2276.50		NIST Webbook
rinpol	2276.50		NIST Webbook
tb	787.82	K	Joback Method
tc	1002.94	K	Joback Method
tf	434.51	K	Joback Method
vc	0.815	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	639.91	J/molxK	787.82	Joback Method
cpg	701.43	J/molxK	967.08	Joback Method
cpg	691.18	J/molxK	931.23	Joback Method
cpg	679.92	J/molxK	895.38	Joback Method
cpg	667.64	J/molxK	859.53	Joback Method
cpg	654.32	J/molxK	823.67	Joback Method
cpg	710.71	J/molxK	1002.94	Joback Method

dvisc	0.0000136	Paxs	787.82	Joback Method
dvisc	0.0000203	Paxs	728.93	Joback Method
dvisc	0.0000326	Paxs	670.05	Joback Method
dvisc	0.0000572	Paxs	611.16	Joback Method
dvisc	0.0001132	Paxs	552.28	Joback Method
dvisc	0.0002638	Paxs	493.39	Joback Method
dvisc	0.0007731	Paxs	434.51	Joback Method

Sources

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=C212516397&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mvol:	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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