1,4-Dibenzyloxybenzene

Other names: Hydroquinone dibenzyl ether
Benzene, 1,4-bis(phenylmethoxy)-
Inchi: InChI=1S/C20H18O2/c1-3-7-17(8-4-1)15-21-19-11-13-20(14-12-19)22-16-18-9-5-2-6-10-
InchiKey: DYULYMCXVSRUPB-UHFFFAOYSA-N
Formula: C20H18O2
SMILES: c1ccc(COc2ccc(OCc3ccccc3)cc2)cc1
Mol. weight [g/mol]: 290.36
CAS: 621-91-0

Physical Properties

Property code	Value	Unit	Source
gf	235.12	kJ/mol	Joback Method
hf	-22.45	kJ/mol	Joback Method
hfus	31.67	kJ/mol	Joback Method
hvap	72.42	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	4.845		Crippen Method
mcvol	233.120	ml/mol	McGowan Method
pc	2077.43	kPa	Joback Method
tb	786.86	K	Joback Method
tc	1035.84	K	Joback Method
tf	451.40	K	Joback Method
vc	0.868	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.13	J/mol×K	786.86	Joback Method
cpg	728.10	J/mol×K	994.34	Joback Method
cpg	716.92	J/mol×K	952.84	Joback Method
cpg	704.40	J/mol×K	911.35	Joback Method
cpg	690.47	J/mol×K	869.85	Joback Method
cpg	675.08	J/mol×K	828.36	Joback Method
cpg	738.04	J/mol×K	1035.84	Joback Method

dvisc	0.0000600	Pa×s	786.86	Joback Method
dvisc	0.0000765	Pa×s	730.95	Joback Method
dvisc	0.0001014	Pa×s	675.04	Joback Method
dvisc	0.0001414	Pa×s	619.13	Joback Method
dvisc	0.0002106	Pa×s	563.22	Joback Method
dvisc	0.0003426	Pa×s	507.31	Joback Method
dvisc	0.0006288	Pa×s	451.40	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=C621910&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume