1,3-Benzenediol, 5-pentyl-

Other names:	Olivetol
	Resorcinol, 5-pentyl-
	5-n-Amylresorcinol
	3,5-Dihydroxyamylbenzene
	5-Pentylresorcinol
	5-n-Pentylresorcinol
Inchi:	InChI=1S/C11H16O2/c1-2-3-4-5-9-6-10(12)8-11(13)7-9/h6-8,12-13H,2-5H2,1H3
InchiKey:	IRMPFYJSHJGOPE-UHFFFAOYSA-N
Formula:	C11H16O2
SMILES:	CCCCCc1cc(O)cc(O)c1
Mol. weight [g/mol]:	180.24
CAS:	500-66-3

Physical Properties

Property code	Value	Unit	Source
gf	-155.09	kJ/mol	Joback Method
hf	-388.46	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	68.38	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.830		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	3695.46	kPa	Joback Method
rinpol	1755.00		NIST Webbook
rinpol	1755.00		NIST Webbook
rinpol	1770.80		NIST Webbook
rinpol	1770.80		NIST Webbook
tb	639.00	K	Joback Method
tc	863.62	K	Joback Method
tf	463.59	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.13	J/mol×K	639.00	Joback Method
cpg	421.92	J/mol×K	676.44	Joback Method
cpg	433.93	J/mol×K	713.87	Joback Method
cpg	445.26	J/mol×K	751.31	Joback Method
cpg	456.06	J/mol×K	788.74	Joback Method
cpg	466.46	J/mol×K	826.18	Joback Method
cpg	476.57	J/mol×K	863.62	Joback Method
dvisc	0.0001659	Pa×s	463.59	Joback Method
dvisc	0.0000731	Pa×s	492.82	Joback Method
dvisc	0.0000353	Pa×s	522.06	Joback Method
dvisc	0.0000184	Pa×s	551.29	Joback Method
dvisc	0.0000103	Pa×s	580.53	Joback Method
dvisc	0.0000060	Pa×s	609.76	Joback Method
dvisc	0.0000037	Pa×s	639.00	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C500663&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
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