1,3-Benzenediol, 4-propyl-

Other names:	4-n-Propylresorcinol
	4-propylresorcinol
Inchi:	InChI=1S/C9H12O2/c1-2-3-7-4-5-8(10)6-9(7)11/h4-6,10-11H,2-3H2,1H3
InchiKey:	DJDHQJFHXLBJNF-UHFFFAOYSA-N
Formula:	C9H12O2
SMILES:	CCCc1ccc(O)cc1O
Mol. weight [g/mol]:	152.19
CAS:	18979-60-7

Physical Properties

Property code	Value	Unit	Source
gf	-171.93	kJ/mol	Joback Method
hf	-347.18	kJ/mol	Joback Method
hfus	24.67	kJ/mol	Joback Method
hvap	63.93	kJ/mol	Joback Method
log10ws	-1.79		Crippen Method
logp	2.050		Crippen Method
mcvol	125.650	ml/mol	McGowan Method
pc	4736.62	kPa	Joback Method
tb	593.24	K	Joback Method
tc	826.79	K	Joback Method
tf	441.05	K	Joback Method
vc	0.363	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.64	J/mol×K	593.24	Joback Method
cpg	325.87	J/mol×K	632.17	Joback Method
cpg	336.27	J/mol×K	671.09	Joback Method
cpg	345.97	J/mol×K	710.02	Joback Method
cpg	355.11	J/mol×K	748.94	Joback Method
cpg	363.83	J/mol×K	787.87	Joback Method
cpg	372.27	J/mol×K	826.79	Joback Method

dvisc	0.0002757	Pa×s	441.05	Joback Method
dvisc	0.0001281	Pa×s	466.42	Joback Method
dvisc	0.0000644	Pa×s	491.78	Joback Method
dvisc	0.0000346	Pa×s	517.14	Joback Method
dvisc	0.0000197	Pa×s	542.51	Joback Method
dvisc	0.0000118	Pa×s	567.88	Joback Method
dvisc	0.0000074	Pa×s	593.24	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18979607&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume