1,3-Benzenediol, 4-ethyl-

Other names:	1,3-Dihydroxy-4-ethylbenzene
	2,4-Dihydroxy-1-ethylbenzene
	4 Ethyl 1,3-benzenediol
	4-Ethylresorcinol
	6-Ethylresorcinol
	Resorcinol, 4-ethyl-
Inchi:	InChI=1S/C8H10O2/c1-2-6-3-4-7(9)5-8(6)10/h3-5,9-10H,2H2,1H3
InchiKey:	VGMJYYDKPUPTID-UHFFFAOYSA-N
Formula:	C8H10O2
SMILES:	CCc1ccc(O)cc1O
Mol. weight [g/mol]:	138.16
CAS:	2896-60-8

Physical Properties

Property code	Value	Unit	Source
gf	-180.35	kJ/mol	Joback Method
hf	-326.54	kJ/mol	Joback Method
hfus	22.08	kJ/mol	Joback Method
hvap	61.71	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method
logp	1.660		Crippen Method
mcvol	111.560	ml/mol	McGowan Method
pc	5430.51	kPa	Joback Method
rinpol	1314.00		NIST Webbook
rinpol	1314.00		NIST Webbook
tb	570.36	K	Joback Method
tc	808.73	K	Joback Method
tf	370.40	K	Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry
vc	0.307	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.81	J/mol×K	570.36	Joback Method
cpg	280.11	J/mol×K	610.09	Joback Method
cpg	289.56	J/mol×K	649.82	Joback Method
cpg	298.31	J/mol×K	689.55	Joback Method
cpg	306.50	J/mol×K	729.28	Joback Method
cpg	314.26	J/mol×K	769.01	Joback Method
cpg	321.75	J/mol×K	808.73	Joback Method
dvisc	0.0003550	Pa×s	429.78	Joback Method
dvisc	0.0001700	Pa×s	453.21	Joback Method
dvisc	0.0000875	Pa×s	476.64	Joback Method
dvisc	0.0000479	Pa×s	500.07	Joback Method
dvisc	0.0000277	Pa×s	523.50	Joback Method
dvisc	0.0000168	Pa×s	546.93	Joback Method
dvisc	0.0000106	Pa×s	570.36	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Vapour pressure data for 2-n-propylresorcinol, 4-ethylresorcinol and 4-hexylresorcinol near their normal boiling points measured by differential scanning calorimetry:	https://www.doi.org/10.1016/j.jct.2019.03.008
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=C2896608&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume