Resorcinol, 2-acetyl-

Other names:	2',6'-Dihydroxyacetophenone 2,6-Dihydroxyacetophenone 2-Acetylresorcinol Acetyl-2,6-dihydroxybenzene Ethanone, 1-(2,6-dihydroxyphenyl)- «gamma»-Resacetophenone Acetophenone, 2',6'-dihydroxy- 1,3-Benzenediol, 2-acetyl- 1-(2,6-Dihydroxyphenyl)ethanone NSC 615
Inchi:	InChI=1S/C8H8O3/c1-5(9)8-6(10)3-2-4-7(8)11/h2-4,10-11H,1H3
InchiKey:	YPTJKHVBDCRKNF-UHFFFAOYSA-N
Formula:	C8H8O3
SMILES:	CC(=O)c1c(O)cccc1O
Mol. weight [g/mol]:	152.15
CAS:	699-83-2

Physical Properties

Property code	Value	Unit	Source
gf	-309.27	kJ/mol	Joback Method
hf	-439.12	kJ/mol	Joback Method
hfus	23.68	kJ/mol	Joback Method
hvap	68.45	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	1.300		Crippen Method
mcvol	113.130	ml/mol	McGowan Method
pc	5972.16	kPa	Joback Method
tb	624.23	K	Joback Method
tc	869.83	K	Joback Method
tf	479.71	K	Joback Method
vc	0.314	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.53	J/mol×K	624.23	Joback Method
cpg	317.34	J/mol×K	828.90	Joback Method
cpg	310.35	J/mol×K	787.96	Joback Method
cpg	303.12	J/mol×K	747.03	Joback Method
cpg	295.51	J/mol×K	706.10	Joback Method
cpg	287.36	J/mol×K	665.16	Joback Method
cpg	324.25	J/mol×K	869.83	Joback Method
dvisc	0.0000059	Pa×s	624.23	Joback Method
dvisc	0.0000089	Pa×s	600.14	Joback Method
dvisc	0.0000138	Pa×s	576.06	Joback Method
dvisc	0.0000224	Pa×s	551.97	Joback Method
dvisc	0.0000380	Pa×s	527.88	Joback Method
dvisc	0.0000676	Pa×s	503.80	Joback Method
dvisc	0.0001275	Pa×s	479.71	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C699832&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

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