

Methyl 2,4,6-trihydroxybenzoate

Other names:	Methyl gallate
	Benzoic acid, 2,4,6-trihydroxy-, methyl ester
Inchi:	InChI=1S/C8H8O5/c1-13-8(12)7-5(10)2-4(9)3-6(7)11/h2-3,9-11H,1H3
InchiKey:	AQDIJIAUYXOCGX-UHFFFAOYSA-N
Formula:	C8H8O5
SMILES:	COC(=O)c1c(O)cc(O)cc1O
Mol. weight [g/mol]:	184.15
CAS:	3147-39-5

Physical Properties

Property code	Value	Unit	Source
gf	-568.89	kJ/mol	Joback Method
hf	-748.65	kJ/mol	Joback Method
hfus	30.65	kJ/mol	Joback Method
hvap	83.88	kJ/mol	Joback Method
log10ws	-0.36		Crippen Method
logp	0.590		Crippen Method
mcvol	124.870	ml/mol	McGowan Method
pc	7406.07	kPa	Joback Method
tb	727.27	K	Joback Method
tc	976.22	K	Joback Method
tf	613.66	K	Joback Method
vc	0.297	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.79	J/mol×K	727.27	Joback Method
cpg	343.51	J/mol×K	768.76	Joback Method
cpg	351.03	J/mol×K	810.25	Joback Method
cpg	358.55	J/mol×K	851.75	Joback Method
cpg	366.26	J/mol×K	893.24	Joback Method
cpg	374.35	J/mol×K	934.73	Joback Method
cpg	383.02	J/mol×K	976.22	Joback Method

dvisc	0.0000014	Pa×s	613.66	Joback Method
dvisc	0.0000009	Pa×s	632.60	Joback Method
dvisc	0.0000006	Pa×s	651.53	Joback Method
dvisc	0.0000004	Pa×s	670.46	Joback Method
dvisc	0.0000003	Pa×s	689.40	Joback Method
dvisc	0.0000002	Pa×s	708.34	Joback Method
dvisc	0.0000001	Pa×s	727.27	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3147395&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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