

Benzene-1,3-dicarboxylic acid, 2-hydroxy, dimethyl ester

Inchi:	InChI=1S/C10H10O5/c1-14-9(12)6-4-3-5-7(8(6)11)10(13)15-2/h3-5,11H,1-2H3
InchiKey:	HJZOAEXBCOTMIU-UHFFFAOYSA-N
Formula:	C10H10O5
SMILES:	COC(=O)c1cccc(C(=O)OC)c1O
Mol. weight [g/mol]:	210.18

Physical Properties

Property code	Value	Unit	Source
gf	-486.36	kJ/mol	Joback Method
hf	-691.58	kJ/mol	Joback Method
hfus	26.67	kJ/mol	Joback Method
hvap	72.12	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	0.965		Crippen Method
mcvol	148.750	ml/mol	McGowan Method
pc	3805.69	kPa	Joback Method
rinpol	1612.00		NIST Webbook
tb	693.06	K	Joback Method
tc	920.77	K	Joback Method
tf	497.44	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.57	J/mol×K	693.06	Joback Method
cpg	429.52	J/mol×K	882.82	Joback Method
cpg	421.52	J/mol×K	844.87	Joback Method
cpg	412.96	J/mol×K	806.92	Joback Method
cpg	403.80	J/mol×K	768.96	Joback Method
cpg	394.02	J/mol×K	731.01	Joback Method
cpg	437.01	J/mol×K	920.77	Joback Method
dvisc	0.0000171	Pa×s	693.06	Joback Method
dvisc	0.0000235	Pa×s	660.46	Joback Method

dvisc	0.0000334	Pa×s	627.85	Joback Method
dvisc	0.0000494	Pa×s	595.25	Joback Method
dvisc	0.0000764	Pa×s	562.65	Joback Method
dvisc	0.0001248	Pa×s	530.04	Joback Method
dvisc	0.0002172	Pa×s	497.44	Joback Method

Sources

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=R306899&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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