

# Benzene-1,2,3-tricarboxylic acid, 4-hydroxy, trimethyl ester

Inchi:	InChI=1S/C12H12O7/c1-17-10(14)6-4-5-7(13)9(12(16)19-3)8(6)11(15)18-2/h4-5,13H,1-3
InchiKey:	RLAQYWQGVIWVHJ-UHFFFAOYSA-N
Formula:	C12H12O7
SMILES:	COC(=O)c1ccc(O)c(C(=O)OC)c1C(=O)OC
Mol. weight [g/mol]:	268.22

## Physical Properties

Property code	Value	Unit	Source
gf	-713.07	kJ/mol	Joback Method
hf	-989.13	kJ/mol	Joback Method
hfus	34.24	kJ/mol	Joback Method
hvap	86.39	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	0.752		Crippen Method
mcvol	184.370	ml/mol	McGowan Method
pc	3149.09	kPa	Joback Method
rinpol	1871.00		NIST Webbook
rinpol	1871.00		NIST Webbook
tb	820.09	K	Joback Method
tc	1044.63	K	Joback Method
tf	604.66	K	Joback Method
vc	0.637	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	516.90	J/molxK	820.09	Joback Method
cpg	527.02	J/molxK	857.51	Joback Method
cpg	536.38	J/molxK	894.94	Joback Method
cpg	545.01	J/molxK	932.36	Joback Method
cpg	552.92	J/molxK	969.79	Joback Method
cpg	560.12	J/molxK	1007.21	Joback Method
cpg	566.64	J/molxK	1044.63	Joback Method
dvisc	0.0000558	Paxs	604.66	Joback Method

dvisc	0.0000351	Paxs	640.57	Joback Method
dvisc	0.0000232	Paxs	676.47	Joback Method
dvisc	0.0000160	Paxs	712.38	Joback Method
dvisc	0.0000114	Paxs	748.28	Joback Method
dvisc	0.0000084	Paxs	784.19	Joback Method
dvisc	0.0000064	Paxs	820.09	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R306755&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R306755&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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