

# Trimethyl isocitrate

<b>Inchi:</b>	InChI=1S/C10H16O6/c1-6(9(12)15-3)7(10(13)16-4)5-8(11)14-2/h6-7H,5H2,1-4H3
<b>InchiKey:</b>	QJJJDRPIBYWIHG-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O6
<b>SMILES:</b>	<chem>COC(=O)CC(C(=O)OC)C(C)C(=O)OC</chem>
<b>Mol. weight [g/mol]:</b>	232.23

## Physical Properties

Property code	Value	Unit	Source
gf	-673.32	kJ/mol	Joback Method
hf	-994.69	kJ/mol	Joback Method
hfus	22.97	kJ/mol	Joback Method
hvap	64.55	kJ/mol	Joback Method
log10ws	-0.11		Crippen Method
logp	0.148		Crippen Method
mcvol	174.080	ml/mol	McGowan Method
pc	2441.06	kPa	Joback Method
rinpol	1435.00		NIST Webbook
tb	656.19	K	Joback Method
tc	849.21	K	Joback Method
tf	388.94	K	Joback Method
vc	0.655	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.00	J/molxK	656.19	Joback Method
cpg	472.62	J/molxK	688.36	Joback Method
cpg	484.60	J/molxK	720.53	Joback Method
cpg	495.91	J/molxK	752.70	Joback Method
cpg	506.54	J/molxK	784.87	Joback Method
cpg	516.47	J/molxK	817.04	Joback Method
cpg	525.69	J/molxK	849.21	Joback Method
dvisc	0.0016466	Paxs	388.94	Joback Method
dvisc	0.0008660	Paxs	433.48	Joback Method

dvisc	0.0005133	Paxs	478.02	Joback Method
dvisc	0.0003327	Paxs	522.57	Joback Method
dvisc	0.0002308	Paxs	567.11	Joback Method
dvisc	0.0001689	Paxs	611.65	Joback Method
dvisc	0.0001289	Paxs	656.19	Joback Method

## Sources

<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=R488718&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R488718&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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