

# 2,4,6-Trimethylmandelic acid

<b>Inchi:</b>	InChI=1S/C11H14O3/c1-6-4-7(2)9(8(3)5-6)10(12)11(13)14/h4-5,10,12H,1-3H3,(H,13,14)
<b>InchiKey:</b>	IRQXVXUXARGLQG-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O3
<b>SMILES:</b>	<chem>Cc1cc(C)c(C(O)C(=O)O)c(C)c1</chem>
<b>Mol. weight [g/mol]:</b>	194.23
<b>CAS:</b>	20797-56-2

## Physical Properties

Property code	Value	Unit	Source
gf	-279.74	kJ/mol	Joback Method
hf	-490.57	kJ/mol	Joback Method
hfus	23.37	kJ/mol	Joback Method
hvap	84.06	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	1.730		Crippen Method
mcvol	155.400	ml/mol	McGowan Method
pc	3329.68	kPa	Joback Method
rinpol	1504.00		NIST Webbook
rinpol	1504.00		NIST Webbook
tb	730.49	K	Joback Method
tc	924.78	K	Joback Method
tf	434.28	K	Joback Method
vc	0.582	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.11	J/molxK	730.49	Joback Method
cpg	430.83	J/molxK	762.87	Joback Method
cpg	439.99	J/molxK	795.25	Joback Method
cpg	448.61	J/molxK	827.63	Joback Method
cpg	456.71	J/molxK	860.01	Joback Method
cpg	464.30	J/molxK	892.39	Joback Method
cpg	471.40	J/molxK	924.78	Joback Method

dvisc	0.0011981	Paxs	434.28	Joback Method
dvisc	0.0003744	Paxs	483.65	Joback Method
dvisc	0.0001451	Paxs	533.02	Joback Method
dvisc	0.0000661	Paxs	582.38	Joback Method
dvisc	0.0000340	Paxs	631.75	Joback Method
dvisc	0.0000193	Paxs	681.12	Joback Method
dvisc	0.0000118	Paxs	730.49	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=C20797562&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20797562&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>

## 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>mvol:</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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