

# Malonic acid, di(3,3-dimethylbut-2-yl) ester

<b>Inchi:</b>	InChI=1S/C15H28O4/c1-10(14(3,4)5)18-12(16)9-13(17)19-11(2)15(6,7)8/h10-11H,9H2,1
<b>InchiKey:</b>	CTNTWNUYQRQTPR-UHFFFAOYSA-N
<b>Formula:</b>	C15H28O4
<b>SMILES:</b>	CC(OC(=O)CC(=O)OC(C)C(C)(C)C)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	272.38

## Physical Properties

Property code	Value	Unit	Source
gf	-391.62	kJ/mol	Joback Method
hf	-870.59	kJ/mol	Joback Method
hfus	18.31	kJ/mol	Joback Method
hvap	63.93	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	3.332		Crippen Method
mvol	237.090	ml/mol	McGowan Method
pc	1584.75	kPa	Joback Method
rinpol	1562.00		NIST Webbook
rinpol	1562.00		NIST Webbook
tb	687.84	K	Joback Method
tc	883.23	K	Joback Method
tf	377.97	K	Joback Method
vc	0.889	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	682.96	J/molxK	687.84	Joback Method
cpg	760.60	J/molxK	850.66	Joback Method
cpg	746.99	J/molxK	818.10	Joback Method
cpg	732.47	J/molxK	785.53	Joback Method
cpg	716.98	J/molxK	752.97	Joback Method
cpg	700.49	J/molxK	720.40	Joback Method
cpg	773.32	J/molxK	883.23	Joback Method
dvisc	0.0000648	Paxs	687.84	Joback Method

dvisc	0.0000924	Paxs	636.20	Joback Method
dvisc	0.0001405	Paxs	584.55	Joback Method
dvisc	0.0002317	Paxs	532.90	Joback Method
dvisc	0.0004253	Paxs	481.26	Joback Method
dvisc	0.0009035	Paxs	429.62	Joback Method
dvisc	0.0023579	Paxs	377.97	Joback Method

## Sources

<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>
<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=U348670&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U348670&amp;Units=SI</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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