

# Eicosyl 3,3-dimethylbutanoate

<b>Inchi:</b>	InChI=1S/C26H52O2/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-28-25(2
<b>InchiKey:</b>	OJYAOFRRTARGCDD-UHFFFAOYSA-N
<b>Formula:</b>	C26H52O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCOC(=O)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	396.69

## Physical Properties

Property code	Value	Unit	Source
gf	-63.04	kJ/mol	Joback Method
hf	-833.52	kJ/mol	Joback Method
hfus	58.47	kJ/mol	Joback Method
hvap	81.33	kJ/mol	Joback Method
log10ws	-9.33		Crippen Method
logp	9.008		Crippen Method
mvol	384.640	ml/mol	McGowan Method
pc	751.02	kPa	Joback Method
rinpol	2669.00		NIST Webbook
rinpol	2669.00		NIST Webbook
tb	867.34	K	Joback Method
tc	1062.10	K	Joback Method
tf	457.36	K	Joback Method
vc	1.504	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1285.38	J/molxK	867.34	Joback Method
cpg	1307.91	J/molxK	899.80	Joback Method
cpg	1329.17	J/molxK	932.26	Joback Method
cpg	1349.20	J/molxK	964.72	Joback Method
cpg	1368.09	J/molxK	997.18	Joback Method
cpg	1385.89	J/molxK	1029.64	Joback Method
cpg	1402.66	J/molxK	1062.10	Joback Method
dvisc	0.0007919	Paxs	457.36	Joback Method

dvisc	0.0003041	Paxs	525.69	Joback Method
dvisc	0.0001456	Paxs	594.02	Joback Method
dvisc	0.0000811	Paxs	662.35	Joback Method
dvisc	0.0000504	Paxs	730.68	Joback Method
dvisc	0.0000340	Paxs	799.01	Joback Method
dvisc	0.0000244	Paxs	867.34	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=R399247&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R399247&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>
<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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