

# Hexanoic acid, 3,5,5-trimethyl-, naphth-2-ylmethyl ester

<b>Inchi:</b>	InChI=1S/C20H26O2/c1-15(13-20(2,3)4)11-19(21)22-14-16-9-10-17-7-5-6-8-18(17)12-16
<b>InchiKey:</b>	DBBYBEREQVMNDW-UHFFFAOYSA-N
<b>Formula:</b>	C20H26O2
<b>SMILES:</b>	CC(CC(=O)OCc1ccc2ccccc2c1)CC(C)(C)C
<b>Mol. weight [g/mol]:</b>	298.42

## Physical Properties

Property code	Value	Unit	Source
gf	93.43	kJ/mol	Joback Method
hf	-298.83	kJ/mol	Joback Method
hfus	30.08	kJ/mol	Joback Method
hvap	72.16	kJ/mol	Joback Method
log10ws	-6.30		Crippen Method
logp	5.345		Crippen Method
mvol	256.880	ml/mol	McGowan Method
pc	1594.89	kPa	Joback Method
rinpol	2292.00		NIST Webbook
rinpol	2292.00		NIST Webbook
tb	780.26	K	Joback Method
tc	1000.01	K	Joback Method
tf	446.38	K	Joback Method
vc	0.977	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	759.86	J/molxK	780.26	Joback Method
cpg	777.22	J/molxK	816.89	Joback Method
cpg	793.41	J/molxK	853.51	Joback Method
cpg	808.52	J/molxK	890.14	Joback Method
cpg	822.65	J/molxK	926.76	Joback Method
cpg	835.89	J/molxK	963.39	Joback Method
cpg	848.33	J/molxK	1000.01	Joback Method
dvisc	0.0011825	Paxs	446.38	Joback Method

dvisc	0.0006317	Paxs	502.03	Joback Method
dvisc	0.0003824	Paxs	557.67	Joback Method
dvisc	0.0002536	Paxs	613.32	Joback Method
dvisc	0.0001801	Paxs	668.97	Joback Method
dvisc	0.0001348	Paxs	724.61	Joback Method
dvisc	0.0001051	Paxs	780.26	Joback Method

## Sources

<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=U406831&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406831&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/87-353-4/Hexanoic-acid-3-5-5-trimethyl-naphth-2-ylmethyl-ester.pdf>

Generated by Cheméo on 2024-05-05 19:28:06.614134229 +0000 UTC m=+17226535.534711540.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.