

# Acetoxyacetic acid, 2-naphthyl ester

<b>Inchi:</b>	InChI=1S/C14H12O4/c1-10(15)17-9-14(16)18-13-7-6-11-4-2-3-5-12(11)8-13/h2-8H,9H2,
<b>InchiKey:</b>	QEWYPKWCQKJOGE-UHFFFAOYSA-N
<b>Formula:</b>	C14H12O4
<b>SMILES:</b>	CC(=O)OCC(=O)Oc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	244.24

## Physical Properties

Property code	Value	Unit	Source
gf	-191.41	kJ/mol	Joback Method
hf	-405.76	kJ/mol	Joback Method
hfus	28.26	kJ/mol	Joback Method
hvap	69.65	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	2.308		Crippen Method
mvol	179.780	ml/mol	McGowan Method
pc	2744.03	kPa	Joback Method
rinpol	1927.00		NIST Webbook
rinpol	1927.00		NIST Webbook
tb	722.94	K	Joback Method
tc	951.99	K	Joback Method
tf	463.50	K	Joback Method
vc	0.681	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.10	J/molxK	722.94	Joback Method
cpg	485.71	J/molxK	761.12	Joback Method
cpg	497.36	J/molxK	799.29	Joback Method
cpg	508.09	J/molxK	837.47	Joback Method
cpg	517.94	J/molxK	875.64	Joback Method
cpg	526.93	J/molxK	913.82	Joback Method
cpg	535.11	J/molxK	951.99	Joback Method
dvisc	0.0010602	Paxs	463.50	Joback Method

dvisc	0.0007269	Paxs	506.74	Joback Method
dvisc	0.0005289	Paxs	549.98	Joback Method
dvisc	0.0004031	Paxs	593.22	Joback Method
dvisc	0.0003187	Paxs	636.46	Joback Method
dvisc	0.0002597	Paxs	679.70	Joback Method
dvisc	0.0002168	Paxs	722.94	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=U307546&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307546&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>

## 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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