

# Sebacic acid, di(2,6-dimethylnon-1-en-3-yn-5-yl) ester

**Inchi:** InChI=1S/C32H50O4/c1-9-17-27(7)29(23-21-25(3)4)35-31(33)19-15-13-11-12-14-16-20-

**InchiKey:** JBOWKLYFDXLJPV-UHFFFAOYSA-N

**Formula:** C32H50O4

**SMILES:** C=C(C)C#CC(OC(=O)CCCCCCCCC(=O)OC(C#CC(=C)C)C(C)CCC)C(C)CCC

**Mol. weight [g/mol]:** 498.74

## Physical Properties

Property code	Value	Unit	Source
gf	305.14	kJ/mol	Joback Method
hf	-438.65	kJ/mol	Joback Method
hfus	71.18	kJ/mol	Joback Method
hvap	106.71	kJ/mol	Joback Method
log10ws	-9.98		Crippen Method
logp	7.962		Crippen Method
mcvol	450.820	ml/mol	McGowan Method
pc	710.35	kPa	Joback Method
rinpol	3059.00		NIST Webbook
rinpol	3059.00		NIST Webbook
tb	1093.50	K	Joback Method
tc	1344.31	K	Joback Method
tf	715.48	K	Joback Method
vc	1.740	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1556.66	J/mol×K	1093.50	Joback Method
cpg	1575.34	J/mol×K	1135.30	Joback Method
cpg	1592.16	J/mol×K	1177.10	Joback Method
cpg	1607.23	J/mol×K	1218.90	Joback Method
cpg	1620.65	J/mol×K	1260.70	Joback Method
cpg	1632.52	J/mol×K	1302.51	Joback Method
cpg	1642.94	J/mol×K	1344.31	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=U355813&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355813&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>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>hvp:</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>rinp:</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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