

# Sebacic acid, di(3-methylbut-2-enyl) ester

<b>Inchi:</b>	InChI=1S/C20H34O4/c1-17(2)13-15-23-19(21)11-9-7-5-6-8-10-12-20(22)24-16-14-18(3)
<b>InchiKey:</b>	SBTCSFVKCOKYIX-UHFFFAOYSA-N
<b>Formula:</b>	C20H34O4
<b>SMILES:</b>	CC(C)=CCOC(=O)CCCCCCCCC(=O)OCC=C(C)C
<b>Mol. weight [g/mol]:</b>	338.48

## Physical Properties

Property code	Value	Unit	Source
gf	-206.98	kJ/mol	Joback Method
hf	-730.87	kJ/mol	Joback Method
hfus	50.91	kJ/mol	Joback Method
hvap	78.50	kJ/mol	Joback Method
log10ws	-5.63		Crippen Method
logp	5.126		Crippen Method
mvol	298.940	ml/mol	McGowan Method
pc	1163.25	kPa	Joback Method
rinpol	2427.00		NIST Webbook
tb	817.66	K	Joback Method
tc	1008.62	K	Joback Method
tf	421.40	K	Joback Method
vc	1.165	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	917.59	J/mol×K	817.66	Joback Method
cpg	934.92	J/mol×K	849.49	Joback Method
cpg	951.28	J/mol×K	881.31	Joback Method
cpg	966.72	J/mol×K	913.14	Joback Method
cpg	981.28	J/mol×K	944.96	Joback Method
cpg	994.99	J/mol×K	976.79	Joback Method
cpg	1007.90	J/mol×K	1008.62	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=U355886&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355886&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>hvac:</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>mccol:</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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