

# Succinic acid, (adamant-1-yl)methyl hept-2-yl ester

Inchi:	InChI=1S/C22H36O4/c1-3-4-5-6-16(2)26-21(24)8-7-20(23)25-15-22-12-17-9-18(13-22)1
InchiKey:	ULGYLDSPRNGUAY-UHFFFAOYSA-N
Formula:	C22H36O4
SMILES:	CCCCC(C)OC(=O)CCC(=O)OCC12CC3CC(CC(C3)C1)C2
Mol. weight [g/mol]:	364.52

## Physical Properties

Property code	Value	Unit	Source
gf	-178.97	kJ/mol	Joback Method
hf	-785.15	kJ/mol	Joback Method
hfus	41.86	kJ/mol	Joback Method
hvap	80.94	kJ/mol	Joback Method
log10ws	-5.59		Crippen Method
logp	5.038		Crippen Method
mvol	303.140	ml/mol	McGowan Method
pc	1272.78	kPa	Joback Method
rinpol	2635.00		NIST Webbook
rinpol	2635.00		NIST Webbook
tb	874.96	K	Joback Method
tc	1083.22	K	Joback Method
tf	536.98	K	Joback Method
vc	1.169	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1049.38	J/mol×K	874.96	Joback Method
cpg	1070.87	J/mol×K	909.67	Joback Method
cpg	1091.87	J/mol×K	944.38	Joback Method
cpg	1112.53	J/mol×K	979.09	Joback Method
cpg	1133.03	J/mol×K	1013.80	Joback Method
cpg	1153.52	J/mol×K	1048.51	Joback Method
cpg	1174.18	J/mol×K	1083.22	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U391356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391356&amp;Units=SI</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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