

# Succinic acid, 2-(adamant-1-yl)ethyl 2-methylpent-3-yl ester

<b>Inchi:</b>	InChI=1S/C22H36O4/c1-4-19(15(2)3)26-21(24)6-5-20(23)25-8-7-22-12-16-9-17(13-22)1
<b>InchiKey:</b>	KVCUBKXGUVFADQ-UHFFFAOYSA-N
<b>Formula:</b>	C22H36O4
<b>SMILES:</b>	CCC(OC(=O)CCC(=O)OCCC12CC3CC(CC(C3)C1)C2)C(C)C
<b>Mol. weight [g/mol]:</b>	364.52

## Physical Properties

Property code	Value	Unit	Source
gf	-181.41	kJ/mol	Joback Method
hf	-790.43	kJ/mol	Joback Method
hfus	38.34	kJ/mol	Joback Method
hvap	80.55	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.894		Crippen Method
mcvol	303.140	ml/mol	McGowan Method
pc	1280.08	kPa	Joback Method
rinpol	2676.00		NIST Webbook
rinpol	2676.00		NIST Webbook
tb	874.52	K	Joback Method
tc	1084.61	K	Joback Method
tf	521.98	K	Joback Method
vc	1.163	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1049.82	J/mol×K	874.52	Joback Method
cpg	1071.47	J/mol×K	909.53	Joback Method
cpg	1092.60	J/mol×K	944.55	Joback Method
cpg	1113.39	J/mol×K	979.56	Joback Method
cpg	1133.99	J/mol×K	1014.58	Joback Method
cpg	1154.59	J/mol×K	1049.59	Joback Method
cpg	1175.35	J/mol×K	1084.61	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=U391364&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391364&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>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>rinpola:</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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