

# Succinic acid, 2,4-dimethylpent-3-yl isobutyl ester

Inchi:	InChI=1S/C15H28O4/c1-10(2)9-18-13(16)7-8-14(17)19-15(11(3)4)12(5)6/h10-12,15H,7-9
InchiKey:	JCEQVOKJHWRCKG-UHFFFAOYSA-N
Formula:	C15H28O4
SMILES:	CC(C)COC(=O)CCC(=O)OC(C(C)C)C(C)C
Mol. weight [g/mol]:	272.38

## Physical Properties

Property code	Value	Unit	Source
gf	-402.18	kJ/mol	Joback Method
hf	-863.65	kJ/mol	Joback Method
hfus	26.09	kJ/mol	Joback Method
hvap	65.74	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	3.190		Crippen Method
mvol	237.090	ml/mol	McGowan Method
pc	1557.35	kPa	Joback Method
rinpol	1658.00		NIST Webbook
rinpol	1658.00		NIST Webbook
tb	693.42	K	Joback Method
tc	878.58	K	Joback Method
tf	343.13	K	Joback Method
vc	0.899	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.17	J/molxK	693.42	Joback Method
cpg	755.78	J/molxK	847.72	Joback Method
cpg	742.20	J/molxK	816.86	Joback Method
cpg	727.76	J/molxK	786.00	Joback Method
cpg	712.44	J/molxK	755.14	Joback Method
cpg	696.25	J/molxK	724.28	Joback Method
cpg	768.51	J/molxK	878.58	Joback Method
dvisc	0.0000775	Paxs	693.42	Joback Method

dvisc	0.0001096	Paxs	635.04	Joback Method
dvisc	0.0001662	Paxs	576.66	Joback Method
dvisc	0.0002767	Paxs	518.27	Joback Method
dvisc	0.0005245	Paxs	459.89	Joback Method
dvisc	0.0011973	Paxs	401.51	Joback Method
dvisc	0.0036197	Paxs	343.13	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.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=U349299&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349299&amp;Units=SI</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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