

# Succinic acid, butyl (5-ethyl-1,3-dioxan-5-yl)methyl ester

Inchi:	InChI=1S/C15H26O6/c1-3-5-8-20-13(16)6-7-14(17)21-11-15(4-2)9-18-12-19-10-15/h3-12
InchiKey:	LBMOYNWVGASVGG-UHFFFAOYSA-N
Formula:	C15H26O6
SMILES:	CCCCOC(=O)CCC(=O)OCC1(CC)COCOC1
Mol. weight [g/mol]:	302.36

## Physical Properties

Property code	Value	Unit	Source
gf	-545.70	kJ/mol	Joback Method
hf	-1036.97	kJ/mol	Joback Method
hfus	41.67	kJ/mol	Joback Method
hvap	75.59	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.054		Crippen Method
mvol	237.970	ml/mol	McGowan Method
pc	1835.69	kPa	Joback Method
rinpol	2083.00		NIST Webbook
rinpol	2083.00		NIST Webbook
tb	768.87	K	Joback Method
tc	971.22	K	Joback Method
tf	487.55	K	Joback Method
vc	0.896	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	734.71	J/mol×K	768.87	Joback Method
cpg	751.82	J/mol×K	802.60	Joback Method
cpg	768.20	J/mol×K	836.32	Joback Method
cpg	783.92	J/mol×K	870.05	Joback Method
cpg	799.05	J/mol×K	903.77	Joback Method
cpg	813.67	J/mol×K	937.50	Joback Method
cpg	827.86	J/mol×K	971.22	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382205&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382205&amp;Units=SI</a>
<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>

# 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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