

# Butanedioic acid, ethyl phenylmethyl ester

<b>Other names:</b>	Ethyl benzyl succinate
<b>Inchi:</b>	InChI=1S/C13H16O4/c1-2-16-12(14)8-9-13(15)17-10-11-6-4-3-5-7-11/h3-7H,2,8-10H2,1
<b>InchiKey:</b>	MGWTXNMQOXXVRU-UHFFFAOYSA-N
<b>Formula:</b>	C13H16O4
<b>SMILES:</b>	CCOC(=O)CCC(=O)OCc1ccccc1
<b>Mol. weight [g/mol]:</b>	236.26
<b>CAS:</b>	106478-00-6

## Physical Properties

Property code	Value	Unit	Source
gf	-296.85	kJ/mol	Joback Method
hf	-564.72	kJ/mol	Joback Method
hfus	29.04	kJ/mol	Joback Method
hvap	65.12	kJ/mol	Joback Method
log10ws	-2.59		Crippen Method
logp	2.073		Crippen Method
mcvol	185.150	ml/mol	McGowan Method
pc	2395.87	kPa	Joback Method
rinpol	1740.00		NIST Webbook
tb	676.10	K	Joback Method
tc	883.94	K	Joback Method
tf	407.01	K	Joback Method
vc	0.704	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	488.48	J/molxK	676.10	Joback Method
cpg	550.07	J/molxK	849.30	Joback Method
cpg	539.47	J/molxK	814.66	Joback Method
cpg	528.02	J/molxK	780.02	Joback Method
cpg	515.71	J/molxK	745.38	Joback Method
cpg	502.54	J/molxK	710.74	Joback Method
cpg	559.82	J/molxK	883.94	Joback Method

dvisc	0.0001346	Paxs	676.10	Joback Method
dvisc	0.0001714	Paxs	631.25	Joback Method
dvisc	0.0002266	Paxs	586.40	Joback Method
dvisc	0.0003138	Paxs	541.56	Joback Method
dvisc	0.0004608	Paxs	496.71	Joback Method
dvisc	0.0007303	Paxs	451.86	Joback Method
dvisc	0.0012811	Paxs	407.01	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=C106478006&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C106478006&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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