

# Dibenzyl succinate

<b>Other names:</b>	Butanedioic acid, bis(phenylmethyl) ester Benzyl succinate Spasmine Succinic acid dibenzyl ester Succinate, dibenzyl
<b>Inchi:</b>	InChI=1S/C18H18O4/c19-17(21-13-15-7-3-1-4-8-15)11-12-18(20)22-14-16-9-5-2-6-10-16
<b>InchiKey:</b>	ODBOBZHTGBGYCK-UHFFFAOYSA-N
<b>Formula:</b>	C18H18O4
<b>SMILES:</b>	O=C(CCC(=O)OCc1ccccc1)OCc1ccccc1
<b>Mol. weight [g/mol]:</b>	298.33
<b>CAS:</b>	103-43-5

## Physical Properties

Property code	Value	Unit	Source
gf	-142.34	kJ/mol	Joback Method
hf	-431.39	kJ/mol	Joback Method
hfus	36.03	kJ/mol	Joback Method
hvap	78.53	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	3.253		Crippen Method
mcvol	231.840	ml/mol	McGowan Method
pc	2081.22	kPa	Joback Method
tb	817.18	K	Joback Method
tc	1045.05	K	Joback Method
tf	489.78	K	Joback Method
vc	0.875	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	669.40	J/molxK	817.18	Joback Method
cpg	683.46	J/molxK	855.16	Joback Method
cpg	696.27	J/molxK	893.14	Joback Method
cpg	707.87	J/molxK	931.12	Joback Method

cpg	718.30	J/mol×K	969.10	Joback Method
cpg	727.60	J/mol×K	1007.08	Joback Method
cpg	735.82	J/mol×K	1045.05	Joback Method
dvisc	0.0007223	Paxs	489.78	Joback Method
dvisc	0.0004065	Paxs	544.35	Joback Method
dvisc	0.0002540	Paxs	598.91	Joback Method
dvisc	0.0001717	Paxs	653.48	Joback Method
dvisc	0.0001233	Paxs	708.05	Joback Method
dvisc	0.0000928	Paxs	762.61	Joback Method
dvisc	0.0000726	Paxs	817.18	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C103435&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C103435&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>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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