

# 1,4-Butanediol, dipropionate

<b>Inchi:</b>	InChI=1S/C10H18O4/c1-3-9(11)13-7-5-6-8-14-10(12)4-2/h3-8H2,1-2H3
<b>InchiKey:</b>	ADGOOVVFTLKVKH-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O4
<b>SMILES:</b>	CCC(=O)OCCCCOC(=O)CC
<b>Mol. weight [g/mol]:</b>	202.25
<b>CAS:</b>	1572-92-5

## Physical Properties

Property code	Value	Unit	Source
gf	-434.52	kJ/mol	Joback Method
hf	-739.33	kJ/mol	Joback Method
hfus	27.23	kJ/mol	Joback Method
hvap	56.17	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.673		Crippen Method
mcvol	166.640	ml/mol	McGowan Method
pc	2298.11	kPa	Joback Method
tb	580.78	K	Joback Method
tc	760.87	K	Joback Method
tf	346.78	K	Joback Method
vc	0.643	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	415.69	J/mol×K	580.78	Joback Method
cpg	476.26	J/mol×K	730.86	Joback Method
cpg	465.23	J/mol×K	700.84	Joback Method
cpg	453.66	J/mol×K	670.83	Joback Method
cpg	441.54	J/mol×K	640.81	Joback Method
cpg	428.88	J/mol×K	610.80	Joback Method
cpg	486.74	J/mol×K	760.87	Joback Method
dvisc	0.0001892	Paxs	580.78	Joback Method
dvisc	0.0002421	Paxs	541.78	Joback Method

dvisc	0.0003219	Paxs	502.78	Joback Method
dvisc	0.0004489	Paxs	463.78	Joback Method
dvisc	0.0006655	Paxs	424.78	Joback Method
dvisc	0.0010682	Paxs	385.78	Joback Method
dvisc	0.0019074	Paxs	346.78	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=C1572925&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1572925&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>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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