

# Succinic anhydride, bromo-

<b>Inchi:</b>	InChI=1S/C4H3BrO3/c5-2-1-3(6)8-4(2)7/h2H,1H2
<b>InchiKey:</b>	CXWBKBJQRJQRKC-UHFFFAOYSA-N
<b>Formula:</b>	C4H3BrO3
<b>SMILES:</b>	O=C1CC(Br)C(=O)O1
<b>Mol. weight [g/mol]:</b>	178.97

## Physical Properties

Property code	Value	Unit	Source
gf	-297.63	kJ/mol	Joback Method
hf	-446.48	kJ/mol	Joback Method
hfus	12.33	kJ/mol	Joback Method
hvap	44.19	kJ/mol	Joback Method
log10ws	-0.57		Crippen Method
logp	0.223		Crippen Method
mcvol	82.870	ml/mol	McGowan Method
pc	5990.66	kPa	Joback Method
tb	534.95	K	Joback Method
tc	795.94	K	Joback Method
tf	368.55	K	Joback Method
vc	0.297	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.86	J/molxK	534.95	Joback Method
cpg	173.42	J/molxK	578.45	Joback Method
cpg	182.58	J/molxK	621.95	Joback Method
cpg	191.27	J/molxK	665.44	Joback Method
cpg	199.43	J/molxK	708.94	Joback Method
cpg	207.00	J/molxK	752.44	Joback Method
cpg	213.91	J/molxK	795.94	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006842&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006842&amp;Units=SI</a>
<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>

# 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>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>mccvol:</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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