

# Succinic acid, di(4-(chloromethyl)benzyl) ester

**Inchi:** InChI=1S/C20H20Cl2O4/c21-11-15-1-5-17(6-2-15)13-25-19(23)9-10-20(24)26-14-18-7-3  
**InchiKey:** MOYGKQPQXBPTZHC-UHFFFAOYSA-N  
**Formula:** C20H20Cl2O4  
**SMILES:** O=C(CCC(=O)OCc1ccc(CCl)cc1)OCc1ccc(CCl)cc1  
**Mol. weight [g/mol]:** 395.28

## Physical Properties

Property code	Value	Unit	Source
gf	-168.62	kJ/mol	Joback Method
hf	-527.09	kJ/mol	Joback Method
hfus	48.83	kJ/mol	Joback Method
hvap	93.07	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	4.731		Crippen Method
mvol	284.500	ml/mol	McGowan Method
pc	1615.47	kPa	Joback Method
rinpol	3135.00		NIST Webbook
rinpol	3135.00		NIST Webbook
tb	947.76	K	Joback Method
tc	1179.66	K	Joback Method
tf	597.20	K	Joback Method
vc	1.085	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	824.58	J/molxK	947.76	Joback Method
cpg	869.01	J/molxK	1141.01	Joback Method
cpg	862.49	J/molxK	1102.36	Joback Method
cpg	854.83	J/molxK	1063.71	Joback Method
cpg	845.98	J/molxK	1025.06	Joback Method
cpg	835.91	J/molxK	986.41	Joback Method
cpg	874.43	J/molxK	1179.66	Joback Method
dvisc	0.0000424	Paxs	947.76	Joback Method

dvisc	0.0000530	Paxs	889.33	Joback Method
dvisc	0.0000685	Paxs	830.91	Joback Method
dvisc	0.0000920	Paxs	772.48	Joback Method
dvisc	0.0001296	Paxs	714.05	Joback Method
dvisc	0.0001941	Paxs	655.63	Joback Method
dvisc	0.0003147	Paxs	597.20	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=U381049&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381049&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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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