

# Adipic acid, isobutyl 2,2,2-trichloroethyl ester

<b>Inchi:</b>	InChI=1S/C12H19Cl3O4/c1-9(2)7-18-10(16)5-3-4-6-11(17)19-8-12(13,14)15/h9H,3-8H2,
<b>InchiKey:</b>	WCZCRIWZFCEPMP-UHFFFAOYSA-N
<b>Formula:</b>	C12H19Cl3O4
<b>SMILES:</b>	CC(C)COC(=O)CCCCC(=O)OCC(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	333.64

## Physical Properties

Property code	Value	Unit	Source
gf	-453.07	kJ/mol	Joback Method
hf	-841.86	kJ/mol	Joback Method
hfus	34.06	kJ/mol	Joback Method
hvap	72.09	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.659		Crippen Method
mvol	231.540	ml/mol	McGowan Method
pc	1792.42	kPa	Joback Method
rinpol	1919.00		NIST Webbook
rinpol	1919.00		NIST Webbook
tb	735.16	K	Joback Method
tc	935.81	K	Joback Method
tf	446.50	K	Joback Method
vc	0.885	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	602.09	J/molxK	735.16	Joback Method
cpg	656.94	J/molxK	902.37	Joback Method
cpg	647.53	J/molxK	868.93	Joback Method
cpg	637.37	J/molxK	835.49	Joback Method
cpg	626.42	J/molxK	802.04	Joback Method
cpg	614.67	J/molxK	768.60	Joback Method
cpg	665.61	J/molxK	935.81	Joback Method
dvisc	0.0000823	Paxs	735.16	Joback Method

dvisc	0.0001092	Paxs	687.05	Joback Method
dvisc	0.0001512	Paxs	638.94	Joback Method
dvisc	0.0002208	Paxs	590.83	Joback Method
dvisc	0.0003447	Paxs	542.72	Joback Method
dvisc	0.0005868	Paxs	494.61	Joback Method
dvisc	0.0011206	Paxs	446.50	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=U353475&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353475&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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