

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

<b>Inchi:</b>	InChI=1S/C11H17Cl3O4/c1-2-7-17-9(15)5-3-4-6-10(16)18-8-11(12,13)14/h2-8H2,1H3
<b>InchiKey:</b>	PBDQYFDNQMMOJM-UHFFFAOYSA-N
<b>Formula:</b>	C11H17Cl3O4
<b>SMILES:</b>	CCCOC(=O)CCCCC(=O)OCC(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	319.61

## Physical Properties

Property code	Value	Unit	Source
gf	-459.05	kJ/mol	Joback Method
hf	-815.94	kJ/mol	Joback Method
hfus	35.00	kJ/mol	Joback Method
hvap	70.25	kJ/mol	Joback Method
log10ws	-3.71		Crippen Method
logp	3.413		Crippen Method
mvol	217.450	ml/mol	McGowan Method
pc	1933.83	kPa	Joback Method
rinpol	1865.00		NIST Webbook
tb	712.72	K	Joback Method
tc	912.17	K	Joback Method
tf	450.23	K	Joback Method
vc	0.836	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.97	J/molxK	712.72	Joback Method
cpg	560.87	J/molxK	745.96	Joback Method
cpg	572.01	J/molxK	779.20	Joback Method
cpg	582.41	J/molxK	812.44	Joback Method
cpg	592.09	J/molxK	845.68	Joback Method
cpg	601.07	J/molxK	878.92	Joback Method
cpg	609.36	J/molxK	912.17	Joback Method
dvisc	0.0010572	Paxs	450.23	Joback Method
dvisc	0.0006051	Paxs	493.98	Joback Method

dvisc	0.0003792	Paxs	537.73	Joback Method
dvisc	0.0002549	Paxs	581.48	Joback Method
dvisc	0.0001812	Paxs	625.22	Joback Method
dvisc	0.0001347	Paxs	668.97	Joback Method
dvisc	0.0001038	Paxs	712.72	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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=U353474&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353474&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>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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