

# Heptadecyl trichloroacetate

<b>Inchi:</b>	InChI=1S/C19H35Cl3O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-24-18(23)19(20,21)
<b>InchiKey:</b>	VNNJRRWQDZVURW-UHFFFAOYSA-N
<b>Formula:</b>	C19H35Cl3O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	401.84

## Physical Properties

Property code	Value	Unit	Source
gf	-157.77	kJ/mol	Joback Method
hf	-736.26	kJ/mol	Joback Method
hfus	52.93	kJ/mol	Joback Method
hvap	78.90	kJ/mol	Joback Method
log10ws	-8.20		Crippen Method
logp	7.771		Crippen Method
mcvol	322.730	ml/mol	McGowan Method
pc	1048.69	kPa	Joback Method
rinsol	2471.00		NIST Webbook
tb	819.47	K	Joback Method
tc	1009.85	K	Joback Method
tf	468.23	K	Joback Method
vc	1.260	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	950.09	J/molxK	819.47	Joback Method
cpg	966.83	J/molxK	851.20	Joback Method
cpg	982.61	J/molxK	882.93	Joback Method
cpg	997.49	J/molxK	914.66	Joback Method
cpg	1011.50	J/molxK	946.39	Joback Method
cpg	1024.70	J/molxK	978.12	Joback Method
cpg	1037.14	J/molxK	1009.85	Joback Method
dvisc	0.0008266	Paxs	468.23	Joback Method
dvisc	0.0003848	Paxs	526.77	Joback Method

dvisc	0.0002087	Paxs	585.31	Joback Method
dvisc	0.0001265	Paxs	643.85	Joback Method
dvisc	0.0000834	Paxs	702.39	Joback Method
dvisc	0.0000586	Paxs	760.93	Joback Method
dvisc	0.0000433	Paxs	819.47	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R146226&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R146226&amp;Units=SI</a>
<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>

## 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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