

# Ethane, tetrachloro-

<b>Other names:</b>	tetrachloroethane
<b>Inchi:</b>	InChI=1S/C2H2Cl4/c3-1(4)2(5)6/h1-2H
<b>InchiKey:</b>	QPFMBZIOSGYJDE-UHFFFAOYSA-N
<b>Formula:</b>	C2H2Cl4
<b>SMILES:</b>	C1C(Cl)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	167.85
<b>CAS:</b>	25322-20-7

## Physical Properties

Property code	Value	Unit	Source
gf	-86.64	kJ/mol	Joback Method
hf	-158.13	kJ/mol	Joback Method
hfus	10.68	kJ/mol	Joback Method
hvap	36.81	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	2.594		Crippen Method
mcvol	88.000	ml/mol	McGowan Method
pc	4205.63	kPa	Joback Method
tb	394.00	K	Joback Method
tc	605.61	K	Joback Method
tf	201.98	K	Joback Method
vc	0.332	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	117.05	J/molxK	394.00	Joback Method
cpg	121.09	J/molxK	429.27	Joback Method
cpg	124.85	J/molxK	464.54	Joback Method
cpg	128.35	J/molxK	499.80	Joback Method
cpg	131.60	J/molxK	535.07	Joback Method
cpg	134.60	J/molxK	570.34	Joback Method
cpg	137.38	J/molxK	605.61	Joback Method
dvisc	0.0088772	Paxs	201.98	Joback Method

dvisc	0.0037828	Paxs	233.98	Joback Method
dvisc	0.0019792	Paxs	265.99	Joback Method
dvisc	0.0011902	Paxs	297.99	Joback Method
dvisc	0.0007899	Paxs	329.99	Joback Method
dvisc	0.0005636	Paxs	362.00	Joback Method
dvisc	0.0004249	Paxs	394.00	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=C25322207&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C25322207&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>h<sub>vap</sub>:</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>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</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

Latest version available from:

<https://www.chemeo.com/cid/69-821-4/Ethane-tetrachloro.pdf>

Generated by Cheméo on 2024-04-17 13:30:12.971829958 +0000 UTC m=+15649861.892407269.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.