

1,2,4,5-tetrachloro-3-methylbenzene

Inchi:	InChI=1S/C7H4Cl4/c1-3-6(10)4(8)2-5(9)7(3)11/h2H,1H3
InchiKey:	ZOXPZFFPPKVNEA-UHFFFAOYSA-N
Formula:	C7H4Cl4
SMILES:	Cc1c(Cl)c(Cl)cc(Cl)c1Cl
Mol. weight [g/mol]:	229.92
CAS:	1006-31-1

Physical Properties

Property code	Value	Unit	Source
hf	-44.62	kJ/mol	Cheméo Relay (1.0)
hfus	23.16	kJ/mol	Joback Method
hvap	63.72	kJ/mol	Cheméo Relay (1.0)
ie	8.78	eV	Cheméo Relay (1.0)
log10ws	-5.52		Cheméo Relay (1.0)
logp	4.609		Crippen Method
mcvol	134.690	ml/mol	McGowan Method
tb	539.25	K	Cheméo Relay (1.0)
tf	380.46	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.66	J/mol×K	555.88	Joback Method
cpg	232.95	J/mol×K	596.23	Joback Method
cpg	239.78	J/mol×K	636.58	Joback Method
cpg	246.17	J/mol×K	676.93	Joback Method
cpg	252.12	J/mol×K	717.28	Joback Method
cpg	257.66	J/mol×K	757.63	Joback Method
cpg	262.79	J/mol×K	797.98	Joback Method
dvisc	0.0010964	Pa×s	364.83	Joback Method
dvisc	0.0007911	Pa×s	396.67	Joback Method
dvisc	0.0005992	Pa×s	428.51	Joback Method
dvisc	0.0004716	Pa×s	460.36	Joback Method
dvisc	0.0003829	Pa×s	492.20	Joback Method

dvisc	0.0003188	Pa×s	524.04	Joback Method
dvisc	0.0002711	Pa×s	555.88	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.45082e+01
Coeff. B	-4.32441e+03
Coeff. C	-8.98660e+01
Temperature range (K), min.	393.96
Temperature range (K), max.	560.08

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

pvap: Vapor pressure
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point

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