

1,2-dichloro-4-(dichloromethyl)benzene

Inchi:	InChI=1S/C7H4Cl4/c8-5-2-1-4(7(10)11)3-6(5)9/h1-3,7H
InchiKey:	LLPBAWYATBAOQG-UHFFFAOYSA-N
Formula:	C7H4Cl4
SMILES:	Clc1ccc(C(Cl)Cl)cc1Cl
Mol. weight [g/mol]:	229.92
CAS:	56961-84-3

Physical Properties

Property code	Value	Unit	Source
hf	-49.09	kJ/mol	Cheméo Relay (1.0)
hfus	20.41	kJ/mol	Joback Method
hvap	70.62	kJ/mol	Cheméo Relay (1.0)
ie	9.39	eV	Cheméo Relay (1.0)
log10ws	-4.38		Cheméo Relay (1.0)
logp	4.470		Crippen Method
mcvol	134.690	ml/mol	McGowan Method
tb	525.60	K	Cheméo Relay (1.0)
tf	312.03	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.70	J/mol×K	545.48	Joback Method
cpg	236.90	J/mol×K	586.39	Joback Method
cpg	244.46	J/mol×K	627.31	Joback Method
cpg	251.40	J/mol×K	668.22	Joback Method
cpg	257.78	J/mol×K	709.13	Joback Method
cpg	263.61	J/mol×K	750.05	Joback Method
cpg	268.93	J/mol×K	790.96	Joback Method
dvisc	0.0020204	Pa×s	324.79	Joback Method
dvisc	0.0012150	Pa×s	361.57	Joback Method
dvisc	0.0008027	Pa×s	398.35	Joback Method
dvisc	0.0005687	Pa×s	435.13	Joback Method
dvisc	0.0004252	Pa×s	471.92	Joback Method

dvisc	0.0003316	Pa×s	508.70	Joback Method
dvisc	0.0002674	Pa×s	545.48	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.41115e+01
Coeff. B	-4.16359e+03
Coeff. C	-8.85320e+01
Temperature range (K), min.	389.72
Temperature range (K), max.	561.67

Sources

The Yaws Handbook of Vapor
Pressure:
Joback Method:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

McGowan Method:

https://en.wikipedia.org/wiki/Joback_method

Crippen Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Cheméo Relay (1.0):

https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0, beta):

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

Latest version available from:

<https://www.cheméo.com/cid/104-188-8/1-2-dichloro-4-dichloromethyl-benzene.pdf>

Generated by Cheméo on 2026-07-21 17:42:14.150967855 +0000 UTC m=+166829.992853238.

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