

1,6-dichlorodecane

Inchi:	InChI=1S/C10H20Cl2/c1-2-3-7-10(12)8-5-4-6-9-11/h10H,2-9H2,1H3
InchiKey:	MFRZGWSDFYBFMJ-UHFFFAOYSA-N
Formula:	C10H20Cl2
SMILES:	CCCC(Cl)CCCCCI
Mol. weight [g/mol]:	211.17
CAS:	---

Physical Properties

Property code	Value	Unit	Source
gf	7.02	kJ/mol	Joback Method
hf	-286.49	kJ/mol	Joback Method
hfus	26.53	kJ/mol	Joback Method
hvap	46.24	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.583		Crippen Method
mcvol	176.240	ml/mol	McGowan Method
pc	1985.89	kPa	Joback Method
ripol	1802.00		NIST Webbook
ripol	1806.00		NIST Webbook
tb	502.62	K	Joback Method
tc	680.58	K	Joback Method
tf	247.30	K	Joback Method
vc	0.688	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.49	J/molxK	502.62	Joback Method
cpg	395.02	J/molxK	532.28	Joback Method
cpg	408.92	J/molxK	561.94	Joback Method
cpg	422.19	J/molxK	591.60	Joback Method
cpg	434.87	J/molxK	621.26	Joback Method
cpg	446.96	J/molxK	650.92	Joback Method
cpg	458.49	J/molxK	680.58	Joback Method

dvisc	0.0067379	Paxs	247.30	Joback Method
dvisc	0.0025564	Paxs	289.85	Joback Method
dvisc	0.0012431	Paxs	332.41	Joback Method
dvisc	0.0007119	Paxs	374.96	Joback Method
dvisc	0.0004568	Paxs	417.51	Joback Method
dvisc	0.0003182	Paxs	460.07	Joback Method
dvisc	0.0002356	Paxs	502.62	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.45662e+01
Coeff. B	-4.46889e+03
Coeff. C	-8.71420e+01
Temperature range (K), min.	400.12
Temperature range (K), max.	570.02

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R295695&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions

hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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