

2-Ethyl-1,10-dichloro decane

Inchi:	InChI=1S/C12H24Cl2/c1-2-12(11-14)9-7-5-3-4-6-8-10-13/h12H,2-11H2,1H3
InchiKey:	MHARWGUHAIVBNN-UHFFFAOYSA-N
Formula:	C12H24Cl2
SMILES:	CCC(CCl)CCCCCCCCI
Mol. weight [g/mol]:	239.22
CAS:	66553-32-0

Physical Properties

Property code	Value	Unit	Source
gf	23.86	kJ/mol	Joback Method
hf	-327.77	kJ/mol	Joback Method
hfus	31.71	kJ/mol	Joback Method
hvap	50.69	kJ/mol	Joback Method
log10ws	-4.91		Crippen Method
logp	5.221		Crippen Method
mcvol	204.420	ml/mol	McGowan Method
pc	1685.18	kPa	Joback Method
tb	548.38	K	Joback Method
tc	723.23	K	Joback Method
tf	269.84	K	Joback Method
vc	0.799	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.22	J/molxK	548.38	Joback Method
cpg	492.18	J/molxK	577.52	Joback Method
cpg	507.42	J/molxK	606.66	Joback Method
cpg	521.99	J/molxK	635.80	Joback Method
cpg	535.89	J/molxK	664.94	Joback Method
cpg	549.16	J/molxK	694.08	Joback Method
cpg	561.81	J/molxK	723.23	Joback Method
dvisc	0.0059355	Paxs	269.84	Joback Method
dvisc	0.0022044	Paxs	316.26	Joback Method

dvisc	0.0010550	Paxs	362.69	Joback Method
dvisc	0.0005968	Paxs	409.11	Joback Method
dvisc	0.0003792	Paxs	455.53	Joback Method
dvisc	0.0002620	Paxs	501.96	Joback Method
dvisc	0.0001927	Paxs	548.38	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C66553320&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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