

DISPARLURE

Other names:	Oxirane, 2-decyl-3-(5-methylhexyl)-, cis- (.+/-cis-7,8-Epoxy-2-methyloctadecane 2-Decyl-3-(5-methylhexyl)oxirane, (Z)- cis-7,8-Epoxy-2-methyloctadecane Epoxan (Z)-7,8-Epoxy-2-methyloctadecane Atralymon (+/-)-cis-Disparlure Oxirane, 2-decyl-3-(5-methylhexyl)-, (2R,3S)-rel-
Inchi:	InChI=1S/C19H38O/c1-4-5-6-7-8-9-10-11-15-18-19(20-18)16-13-12-14-17(2)3/h17-19H,4
InchiKey:	HFOFYNMWYRXIBP-UHFFFAOYSA-N
Formula:	C19H38O
SMILES:	CCCCCCCCCCC[C@H]1O[C@H]1CCCCC(C)C
Mol. weight [g/mol]:	282.51

Physical Properties

Property code	Value	Unit	Source
af	0.7627		Cheméo Relay (1.0)
gf	73.58	kJ/mol	Joback Method
hf	-472.07	kJ/mol	Cheméo Relay (1.0)
hfus	48.63	kJ/mol	Joback Method
hvap	85.41	kJ/mol	Cheméo Relay (1.0)
ie	9.54	eV	Cheméo Relay (1.0)
log10ws	-7.04		Cheméo Relay (1.0)
logp	6.501		Crippen Method
mcvol	273.580	ml/mol	McGowan Method
pc	1152.22	kPa	Joback Method
rinpol	1990.00		NIST Webbook
rinpol	1990.00		NIST Webbook
rinpol	2032.00		NIST Webbook
rinpol	2032.00		NIST Webbook
rinpol	2028.00		NIST Webbook
tb	592.59	K	Cheméo Relay (1.0)
tc	776.89	K	Cheméo Relay (1.0)
tf	300.12	K	Cheméo Relay (1.0)
vc	1.105	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	809.45	J/mol×K	662.70	Joback Method
cpg	830.42	J/mol×K	690.99	Joback Method
cpg	850.44	J/mol×K	719.28	Joback Method
cpg	869.55	J/mol×K	747.57	Joback Method
cpg	887.80	J/mol×K	775.86	Joback Method
cpg	905.21	J/mol×K	804.15	Joback Method
cpg	921.83	J/mol×K	832.43	Joback Method
dvisc	0.0033344	Pa×s	329.16	Joback Method
dvisc	0.0016515	Pa×s	384.75	Joback Method
dvisc	0.0009768	Pa×s	440.34	Joback Method
dvisc	0.0006499	Pa×s	495.93	Joback Method
dvisc	0.0004694	Pa×s	551.52	Joback Method
dvisc	0.0003599	Pa×s	607.11	Joback Method
dvisc	0.0002885	Pa×s	662.70	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C29804226&Units=SI
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):	

Legend

af:	Acentric Factor
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
hvac:	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
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/66-932-4/DISPARLURE.pdf>

Generated by Cheméo on 2026-07-21 20:51:58.021633392 +0000 UTC m=+178213.863518777.

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