

Docosyl octyl ether

Inchi: InChI=1S/C30H62O/c1-3-5-7-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-28-30-3
InchiKey: OTMSWDYVEWJAKI-UHFFFAOYSA-N
Formula: C30H62O
SMILES: CCCCCCCCCCCCCCCCCCCCCCOCCCCCCCC
Mol. weight [g/mol]: 438.81

Physical Properties

Property code	Value	Unit	Source
gf	96.72	kJ/mol	Joback Method
hf	-794.75	kJ/mol	Joback Method
hfus	74.64	kJ/mol	Joback Method
hvap	84.78	kJ/mol	Joback Method
log10ws	-11.47		Crippen Method
logp	11.185		Crippen Method
mvol	439.430	ml/mol	McGowan Method
pc	590.55	kPa	Joback Method
rinpol	3056.00		NIST Webbook
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tb	908.22	K	Joback Method
tc	1123.48	K	Joback Method
tf	450.09	K	Joback Method
vc	1.734	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1518.65	J/molxK	908.22	Joback Method
cpg	1639.59	J/molxK	1087.61	Joback Method
cpg	1618.55	J/molxK	1051.73	Joback Method
cpg	1596.01	J/molxK	1015.85	Joback Method
cpg	1571.90	J/molxK	979.97	Joback Method
cpg	1546.14	J/molxK	944.10	Joback Method
cpg	1659.23	J/molxK	1123.48	Joback Method
dvisc	0.0000180	Paxs	908.22	Joback Method

dvisc	0.0000250	Paxs	831.87	Joback Method
dvisc	0.0000371	Paxs	755.51	Joback Method
dvisc	0.0000602	Paxs	679.15	Joback Method
dvisc	0.0001105	Paxs	602.80	Joback Method
dvisc	0.0002420	Paxs	526.45	Joback Method
dvisc	0.0006914	Paxs	450.09	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=U406389&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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

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