

Butyl eicosyl ether

Inchi:	InChI=1S/C24H50O/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-24-25-23-6-4
InchiKey:	TTZAPPKPTGLRTD-UHFFFAOYSA-N
Formula:	C24H50O
SMILES:	CCCCCCCCCCCCCCCCCCCCOCCCC
Mol. weight [g/mol]:	354.65

Physical Properties

Property code	Value	Unit	Source
gf	46.20	kJ/mol	Joback Method
hf	-670.91	kJ/mol	Joback Method
hfus	59.10	kJ/mol	Joback Method
hvap	71.43	kJ/mol	Joback Method
log10ws	-8.96		Crippen Method
logp	8.845		Crippen Method
mvol	354.890	ml/mol	McGowan Method
pc	798.43	kPa	Joback Method
rinpol	2476.00		NIST Webbook
tb	770.94	K	Joback Method
tc	944.39	K	Joback Method
tf	382.47	K	Joback Method
vc	1.397	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1123.31	J/molxK	770.94	Joback Method
cpg	1146.09	J/molxK	799.85	Joback Method
cpg	1167.79	J/molxK	828.76	Joback Method
cpg	1188.45	J/molxK	857.67	Joback Method
cpg	1208.10	J/molxK	886.57	Joback Method
cpg	1226.77	J/molxK	915.48	Joback Method
cpg	1244.48	J/molxK	944.39	Joback Method
dvisc	0.0015134	Paxs	382.47	Joback Method
dvisc	0.0005462	Paxs	447.22	Joback Method

dvisc	0.0002551	Paxs	511.96	Joback Method
dvisc	0.0001413	Paxs	576.70	Joback Method
dvisc	0.0000882	Paxs	641.45	Joback Method
dvisc	0.0000601	Paxs	706.19	Joback Method
dvisc	0.0000436	Paxs	770.94	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406407&Units=SI
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

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
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.chemeo.com/cid/72-322-4/Butyl-eicosyl-ether.pdf>

Generated by Cheméo on 2024-04-24 04:50:02.137042306 +0000 UTC m=+16223451.057619619.

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