

di-(2-Methoxybutyl)seberate

Inchi:	InChI=1S/C18H34O6/c1-5-15(21-3)13-23-17(19)11-9-7-8-10-12-18(20)24-14-16(6-2)22-4
InchiKey:	YUVNXNMRMXCSBU-UHFFFAOYSA-N
Formula:	C18H34O6
SMILES:	CCC(COC(=O)CCCCCCC(=O)OCC(CC)OC)OC
Mol. weight [g/mol]:	346.46

Physical Properties

Property code	Value	Unit	Source
gf	-582.04	kJ/mol	Joback Method
hf	-1179.45	kJ/mol	Joback Method
hfus	43.28	kJ/mol	Joback Method
hvap	78.02	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.263		Crippen Method
mcvol	291.100	ml/mol	McGowan Method
pc	1212.36	kPa	Joback Method
rinpol	1947.00		NIST Webbook
tb	807.78	K	Joback Method
tc	993.49	K	Joback Method
tf	451.40	K	Joback Method
vc	1.115	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	912.35	J/molxK	807.78	Joback Method
cpg	987.14	J/molxK	962.54	Joback Method
cpg	974.39	J/molxK	931.59	Joback Method
cpg	960.52	J/molxK	900.64	Joback Method
cpg	945.56	J/molxK	869.68	Joback Method
cpg	929.50	J/molxK	838.73	Joback Method
cpg	998.78	J/molxK	993.49	Joback Method
dvisc	0.0000336	Paxs	807.78	Joback Method
dvisc	0.0000454	Paxs	748.38	Joback Method

dvisc	0.0000647	Paxs	688.99	Joback Method
dvisc	0.0000983	Paxs	629.59	Joback Method
dvisc	0.0001632	Paxs	570.19	Joback Method
dvisc	0.0003047	Paxs	510.80	Joback Method
dvisc	0.0006705	Paxs	451.40	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R542184&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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/22-697-4/di-2-Methoxybutyl-suberate.pdf>

Generated by Cheméo on 2024-04-20 09:51:49.494045955 +0000 UTC m=+15895958.414623315.

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