

TRIETHYLENEGLYCOL DI-2-ETHYLBUTYRATE

Other names:	Butyric acid, 2-ethyl-, diester with triethylene glycol Flexol plasticizer 3GH Plasticizer 3GH Triethylene glycol bis(2-ethyl butyrate) Triethylene glycol di(2-ethyl butyrate) 2-Ethylbutyric acid, diester with triethylene glycol 2-Ethylbutyric acid, triethylene glycol diester 2,2'-(Ethylenedioxy)di(ethyl 2-ethylbutyrate) Butanoic acid, 2-ethyl-, 1,1'-[1,2-ethanediylbis(oxy-2,1-ethanediyl)] ester NSC 406329 2,2'-ethylenedioxydiethyl bis(2-ethylbutyrate)
Inchi:	InChI=1S/C18H34O6/c1-5-15(6-2)17(19)23-13-11-21-9-10-22-12-14-24-18(20)16(7-3)8-4
InchiKey:	JEYLQCXBYFQJRO-UHFFFAOYSA-N
Formula:	C18H34O6
SMILES:	CCC(CC)C(=O)OCCOCCOCCOC(=O)C(CC)CC
Mol. weight [g/mol]:	346.46

Physical Properties

Property code	Value	Unit	Source
hf	-1293.23	kJ/mol	Cheméo Relay (1.0)
hfus	43.28	kJ/mol	Joback Method
hvap	97.47	kJ/mol	Cheméo Relay (1.0)
log10ws	-3.00		Cheméo Relay (1.0)
logp	2.978		Crippen Method
mcvol	291.100	ml/mol	McGowan Method
pc	1212.36	kPa	Joback Method
tb	598.12	K	Cheméo Relay (1.0)
tc	782.90	K	Cheméo Relay (1.0)
tf	223.52	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	912.35	J/mol×K	807.78	Joback Method

cpg	929.50	J/mol×K	838.73	Joback Method
cpg	945.56	J/mol×K	869.68	Joback Method
cpg	960.52	J/mol×K	900.64	Joback Method
cpg	974.39	J/mol×K	931.59	Joback Method
cpg	987.14	J/mol×K	962.54	Joback Method
cpg	998.78	J/mol×K	993.49	Joback Method
dvisc	0.0006705	Pa×s	451.40	Joback Method
dvisc	0.0003047	Pa×s	510.80	Joback Method
dvisc	0.0001632	Pa×s	570.19	Joback Method
dvisc	0.0000983	Pa×s	629.59	Joback Method
dvisc	0.0000647	Pa×s	688.99	Joback Method
dvisc	0.0000454	Pa×s	748.38	Joback Method
dvisc	0.0000336	Pa×s	807.78	Joback Method
hvapt	91.70	kJ/mol	420.50	NIST Webbook

Sources

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.cheméo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C95089&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point

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