

Pluronic f-68

Inchi:	InChI=1S/C2H6O2/c3-1-2-4/h3-4H,1-2H2
InchiKey:	LYCAIKOWRPUZTN-UHFFFAOYSA-N
Formula:	C2H6O2
SMILES:	OCCO
Mol. weight [g/mol]:	62.07

Physical Properties

Property code	Value	Unit	Source
gf	-307.68	kJ/mol	Joback Method
hf	-389.07	kJ/mol	Joback Method
hfus	9.11	kJ/mol	Joback Method
hvap	53.40	kJ/mol	Joback Method
log10ws	0.81		Crippen Method
logp	-1.029		Crippen Method
mcvol	50.780	ml/mol	McGowan Method
pc	6653.02	kPa	Joback Method
tb	429.52	K	Joback Method
tc	589.28	K	Joback Method
tf	233.94	K	Joback Method
vc	0.185	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	99.75	J/molxK	429.52	Joback Method
cpg	103.79	J/molxK	456.15	Joback Method
cpg	107.68	J/molxK	482.77	Joback Method
cpg	111.44	J/molxK	509.40	Joback Method
cpg	115.05	J/molxK	536.02	Joback Method
cpg	118.53	J/molxK	562.65	Joback Method
cpg	121.88	J/molxK	589.28	Joback Method
dvisc	0.4711165	Paxs	233.94	Joback Method
dvisc	0.0601273	Paxs	266.54	Joback Method
dvisc	0.0120189	Paxs	299.13	Joback Method

dvisc	0.0032966	Paxs	331.73	Joback Method
dvisc	0.0011397	Paxs	364.33	Joback Method
dvisc	0.0004691	Paxs	396.92	Joback Method
dvisc	0.0002210	Paxs	429.52	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6009514&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
hvac:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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