

Dipropylene glycol monomethyl ether acetate

Inchi:	InChI=1S/C9H18O4/c1-9(10)13-8-4-7-12-6-3-5-11-2/h3-8H2,1-2H3
InchiKey:	WVJDEAVPVAFGLE-UHFFFAOYSA-N
Formula:	C9H18O4
SMILES:	COCCCCOCCOC(C)=O
Mol. weight [g/mol]:	190.14

Physical Properties

Property code	Value	Unit	Source
af	0.6561		Cheméo Relay (1.0)
fpc	358.15	K	NCMS SOLV-DB
hf	-801.14	kJ/mol	Cheméo Relay (1.0)
hfus	25.81	kJ/mol	Joback Method
hvap	67.67	kJ/mol	Cheméo Relay (1.0)
ie	9.34	eV	Cheméo Relay (1.0)
log10ws	-0.23		Cheméo Relay (1.0)
logp	-0.564		NCMS SOLV-DB
mcvol	156.850	ml/mol	McGowan Method
pc	2244.00	kPa	Joback Method
tb	473.15	K	NCMS SOLV-DB
tc	680.96	K	Cheméo Relay (1.0)
tf	220.90	K	Cheméo Relay (1.0)
vc	0.603	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
dvisc	0.0020000	Pa×s	298.15	NCMS SOLV-DB
pvap	0.69	kPa	295.15	NCMS SOLV-DB
srf	0.03	N/m	298.15	NCMS SOLV-DB

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$
Y unit	J/mol×K
Coeff. A	7.11160e+01
Coeff. B	6.77640e-01
Coeff. C	-1.49200e-04
Coeff. D	-7.08000e-08
Coeff. E	0.00000e+00
Basis	predicted
Temperature range (K), min.	273.00
Temperature range (K), max.	1000.00

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NCMS SOLV-DB:	http://solvdb.ncms.org/common01.idc?solvno=88917220A
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
fpc:	Flash Point (Closed Cup Method)
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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