Heptapropylene glycol, monoallyl ether, acetate

Inchi: InChI=1S/C26H50O9/c1-10-11-28-12-19(2)29-13-20(3)30-14-21(4)31-15-22(5)32-16-23(

InchiKey: ADBBXUXKDHMXJJ-UHFFFAOYSA-N

Formula: C26H50O9

SMILES: C=CCOCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OCC(C)OC(C)=O

Mol. weight [g/mol]: 506.67

Physical Properties

Property code	Value	Unit	Source
gf	-730.12	kJ/mol	Joback Method
hf	-1661.84	kJ/mol	Joback Method
hfus	48.26	kJ/mol	Joback Method
hvap	96.11	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.571		Crippen Method
mcvol	421.430	ml/mol	McGowan Method
pc	734.82	kPa	Joback Method
rinpol	2653.00		NIST Webbook
rinpol	2656.00		NIST Webbook
rinpol	2655.00		NIST Webbook
rinpol	2658.00		NIST Webbook
rinpol	2657.00		NIST Webbook
rinpol	2660.00		NIST Webbook
rinpol	2660.00		NIST Webbook
rinpol	2657.00		NIST Webbook
rinpol	2653.00		NIST Webbook
rinpol	2654.00		NIST Webbook
rinpol	2658.00		NIST Webbook
rinpol	2660.00		NIST Webbook
rinpol	2656.00		NIST Webbook
rinpol	2656.00		NIST Webbook
tb	1021.11	K	Joback Method
tc	1263.48	K	Joback Method
tf	503.79	K	Joback Method
vc	1.581	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1483.05	J/mol×K	1021.11	Joback Method
cpg	1499.98	J/mol×K	1061.50	Joback Method
cpg	1513.78	J/mol×K	1101.90	Joback Method
cpg	1524.40	J/mol×K	1142.29	Joback Method
cpg	1531.77	J/mol×K	1182.69	Joback Method
cpg	1535.85	J/mol×K	1223.08	Joback Method
cpg	1536.58	J/mol×K	1263.48	Joback Method
dvisc	0.0001325	Pa×s	503.79	Joback Method
dvisc	0.0000394	Pa×s	590.01	Joback Method
dvisc	0.0000160	Pa×s	676.23	Joback Method
dvisc	0.0000079	Pa×s	762.45	Joback Method
dvisc	0.0000045	Pa×s	848.67	Joback Method
dvisc	0.0000029	Pa×s	934.89	Joback Method
dvisc	0.0000020	Pa×s	1021.11	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R152102&Units=SI

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