Heptafluorobutanamide, N,N-diundecyl-

Other names: Heptafluorobutanamide, N,N-diundecyl-
Inchi: InChI=1S/C26H46F7NO/c1-3-5-7-9-11-13-15-17-19-21-34(22-20-18-16-14-12-10-8-6-4-2
InchiKey: LEYMXDNGRHCLNZ-UHFFFAOYSA-N
Formula: C26H46F7NO
SMILES: CCCCCCCCCCCN(CCCCCCCCCCC)C(=O)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]: 521.65

Physical Properties

Property code	Value	Unit	Source
hfus	67.03	kJ/mol	Joback Method
hvap	111.55	kJ/mol	Cheméo Relay (1.0)
logp	9.710		Crippen Method
mcvol	401.140	ml/mol	McGowan Method
rinpol	2478.00		NIST Webbook
rinpol	2478.00		NIST Webbook
tb	624.08	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1346.84	J/mol×K	845.99	Joback Method
cpg	1369.18	J/mol×K	878.86	Joback Method
cpg	1390.27	J/mol×K	911.72	Joback Method
cpg	1410.22	J/mol×K	944.59	Joback Method
cpg	1429.16	J/mol×K	977.45	Joback Method
cpg	1447.22	J/mol×K	1010.32	Joback Method
cpg	1464.52	J/mol×K	1043.18	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C120219490&Units=SI

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature