CAPSTONE DESIGN PROBLEM - CADET ASSIGNMENTS

As of 14 August 2022

A-Hour	Species	T1, K	P1, bar	T2, K	P2, bar
Dawson	Methanol	435.63	8.08	1025.00	64.67
	Dinitrogen Tetroxide	366.65	9.98	862.70	79.81
Harrison	Ethanol	436.90	6.14	1028.00	49.10
	Formaldehyde	357.00	6.59	840.00	52.72
Kim	Ethylene Oxide	398.78	7.19	938.30	57.52
	Ethylbenzene	524.58	3.61	1357.73	28.87
Lucero	1,3-Butadiene	361.25	4.32	850.00	34.56
	Nitrogen Dioxide	366.48	10.13	862.30	81.06
Romsland	Ethylene	239.99	5.04	564.68	40.33
	Propylene	310.12	4.60	729.70	36.80
Tuttle	Methane	161.98	4.60	381.13	36.79
	Oxygen	131.39	5.04	309.16	40.34

Species	T1, K	P1, bar	T2, K	P2, bar
1-Hexene	428.40	3.21	1008.00	25.68
Air	112.58	3.77	264.90	30.19
Benzene	477.74	4.90	1124.10	39.16
Toluene	502.99	4.11	1183.50	32.86
Ethane	259.52	4.87	610.64	38.98
Water	550.03	22.06	1294.19	176.51
Propane	314.36	4.25	739.66	33.98
Acetylene	396.10	5.57	932.00	44.56
Bromine	496.53	10.30	1168.30	82.40
Hydrogen	28.21	1.31	66.38	10.50
Nitric Oxide	153.13	6.48	360.30	51.84
Ammonia	344.80	11.28	811.30	90.24
N-Hexane	431.46	3.03	1015.20	24.20
Hydrogen Sulfide	317.50	8.96	747.06	71.70
Chlorine	354.58	7.71	834.30	61.68
Nitrogen	107.27	3.40	252.40	27.20
	1-Hexene Air Benzene Toluene Ethane Water Propane Acetylene Bromine Hydrogen Nitric Oxide Ammonia N-Hexane Hydrogen Sulfide Chlorine	1-Hexene 428.40 Air 112.58 Benzene 477.74 Toluene 502.99 Ethane 259.52 Water 550.03 Propane 314.36 Acetylene 396.10 Bromine 496.53 Hydrogen 28.21 Nitric Oxide 153.13 Ammonia 344.80 N-Hexane 431.46 Hydrogen Sulfide 317.50 Chlorine 354.58	1-Hexene428.403.21Air112.583.77Benzene477.744.90Toluene502.994.11Ethane259.524.87Water550.0322.06Propane314.364.25Acetylene396.105.57Bromine496.5310.30Hydrogen28.211.31Nitric Oxide153.136.48Ammonia344.8011.28N-Hexane431.463.03Hydrogen Sulfide317.508.96Chlorine354.587.71	1-Hexene428.403.211008.00Air112.583.77264.90Benzene477.744.901124.10Toluene502.994.111183.50Ethane259.524.87610.64Water550.0322.061294.19Propane314.364.25739.66Acetylene396.105.57932.00Bromine496.5310.301168.30Hydrogen28.211.3166.38Nitric Oxide153.136.48360.30Ammonia344.8011.28811.30N-Hexane431.463.031015.20Hydrogen Sulfide317.508.96747.06Chlorine354.587.71834.30