



**Tabriz Petroleum  
of Aras Free Zone**  
*Resilience in Every Barrel We Refine*

# Technical Data Sheet Turbine Fuel, Aviation kerosene

Cas No. 64742-81-0

Rev.: 2022/10

TPA/001730

No.	Properties	Unit	Standard	Result	Ref. Test Method
1	Density @ 15°C	Kg/m <sup>3</sup>	775-840	783	ASTM D4052
2	Color	-	T.B.R	29	ASTM D156
3	Appearance	-	-	Clear	Visual
4	I.B.P	°C	T.B.R	150	-
5	10%	°C	205 Max.	160	-
6	50%	°C	T.B.R	168	-
7	90%	°C	T.B.R	200	-
8	F.B.P	°C	300 Max.	250	-
9	Reduce / Low	vol%	1.5 Max.	1.2/0.8	-
10	Gum existent	mg/100ml	7.0 Max.	0.6	IP 540
11	Doctor test	-	Negative	Neg.	IP 30
12	Sulphur Mercaptan	Wt. %	0.003	-	ASTM D3227
13	Total Sulphur	Wt. %	0.3 Max.	0.0086	IP 336
14	Electrical conductivity	Ps/m	50-600	290	ASTM D2624
15	Specific energy	mi/kg	42.8 Min.	43.1	ASTM D2386
16	Aromatics	vol%	25 Max.	19.2	ASTM D1319
17	Freezing point	°C	-47 Max.	-49 Min.	ASTM D2386
18	Smoke point	mm	25 Min.	26	ASTM D1322
19	Copper content	ppm	1 Max.	1	ASTM D130
20	Water separation index	-	70 Min.	97	ASTM D3948
21	Total acid	Mg KOH/g	0.015Max.	0.0051	ASTM D3242
22	Particulate contaminant	Mg/lit	1.0 Max.	0.16	ASTM D5452
23	Viscosity kinematic @ -20°C	Cst	8 Max.	3.7	ASTM D445
24	Flash point	°C	38 Min.	40	IP 170
25	Jet fuel thermal oxidation tester @260°C	-	-	-	ASTM D3241
26	Filter pressure differential		25 Max.	Zero	-
27	Tube deposit rating	(visual)	3.0 Max.	1	-
28	Lubricity wear scar diameter	mm	0.85 Max.	0.7	ASTM D5001



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PLANT ADD: HEAVY INDUSTRIES SITE, AVOGHLI ROAD, ARAS FREE ZONE, JOLFA, IRAN

OFFICE ADD: No.3, F3, VALIASR TRADING COMPLEX, QANUN ST., VALIASR, TABRIZ, IRAN